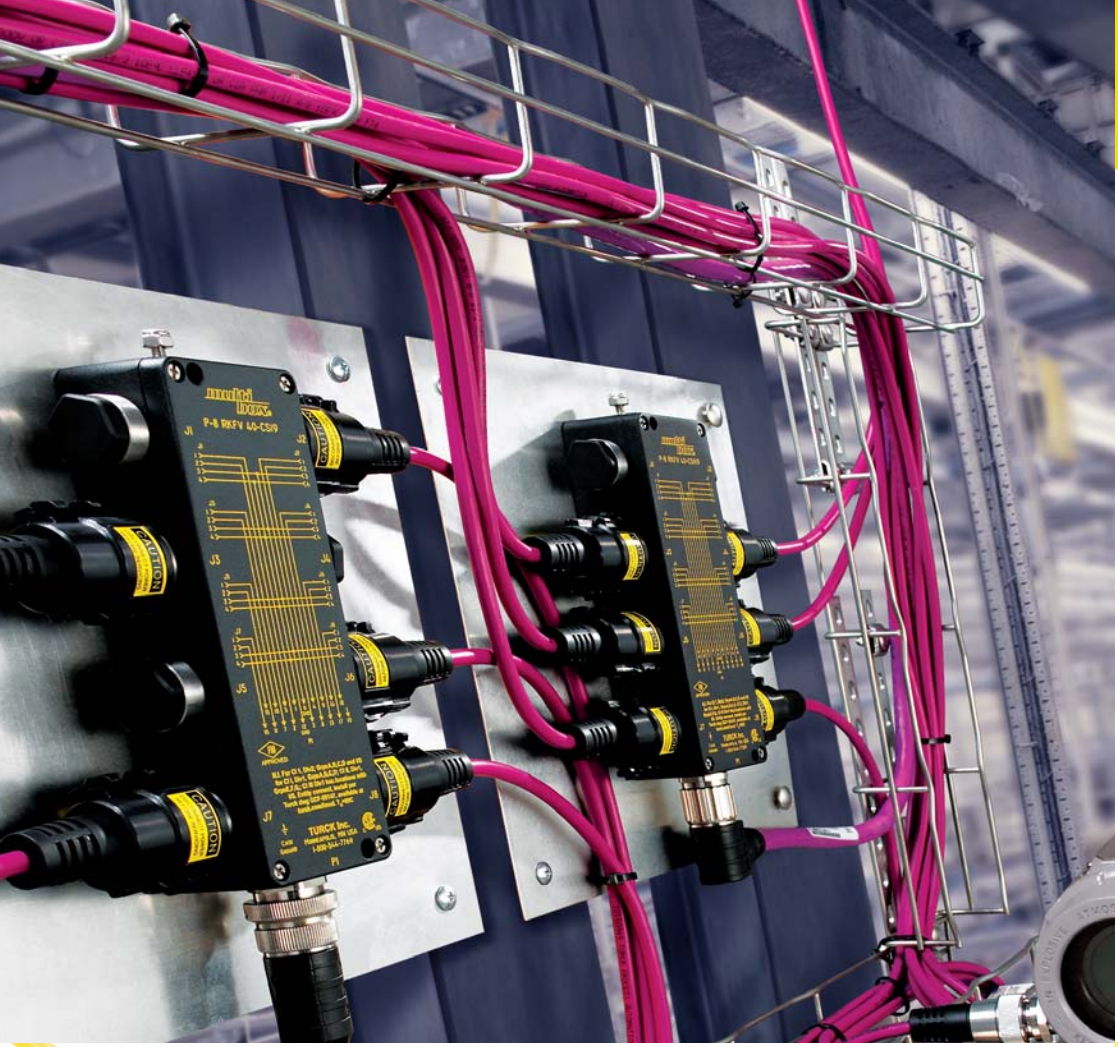


TURCK

PROCESS AUTOMATION

Process Wiring Products

www.turck.com

TURCK works

Industrial Automation

PS400 & PS500 Pressure Sensors

TURCK SOLID-STATE PRESSURE SENSORS MAKE MECHANICAL CONTROLS OBSOLETE.

- IP67 stainless steel housing with integrated M12 ***eurofast***® connector
- **TURCK Exclusive!** Ceramic pressure cell technology featuring ±0.5% accuracy
- Bright 4-digit, 7-segment 45° constant LCD display
- On-board pushbutton programming
- **TURCK Exclusive!** PS500 model offers 360° housing rotation
- **TURCK Exclusive!** Display inversion for mounting flexibility
- **TURCK Exclusive!** Media Stop system seals the sensor if it's damaged
- Transparent harsh-duty cover option

Innovative PS400 and PS500 pressure sensors from TURCK replace bulky, cumbersome mechanical controls with far greater display and control accuracy.

TURCK's exclusive 360° housing rotation and display inversion technology offers greater visibility and mounting flexibility at the source. The patented Media Stop system prevents fluid leakage if the pressure cell becomes damaged.

Robust corrosion-resistant IP67 design and solid-state technology offers 10-million cycle performance. And unlike mechanical controls that require remote wall mounting, extra lines and hard-wiring, compact TURCK pressure sensors offer direct mounting flexibility for easier programming and monitoring at the source along with easy to install M12 connectors.

Call us with your next application:

1-800-544-7769

email: turckusa@turck.com

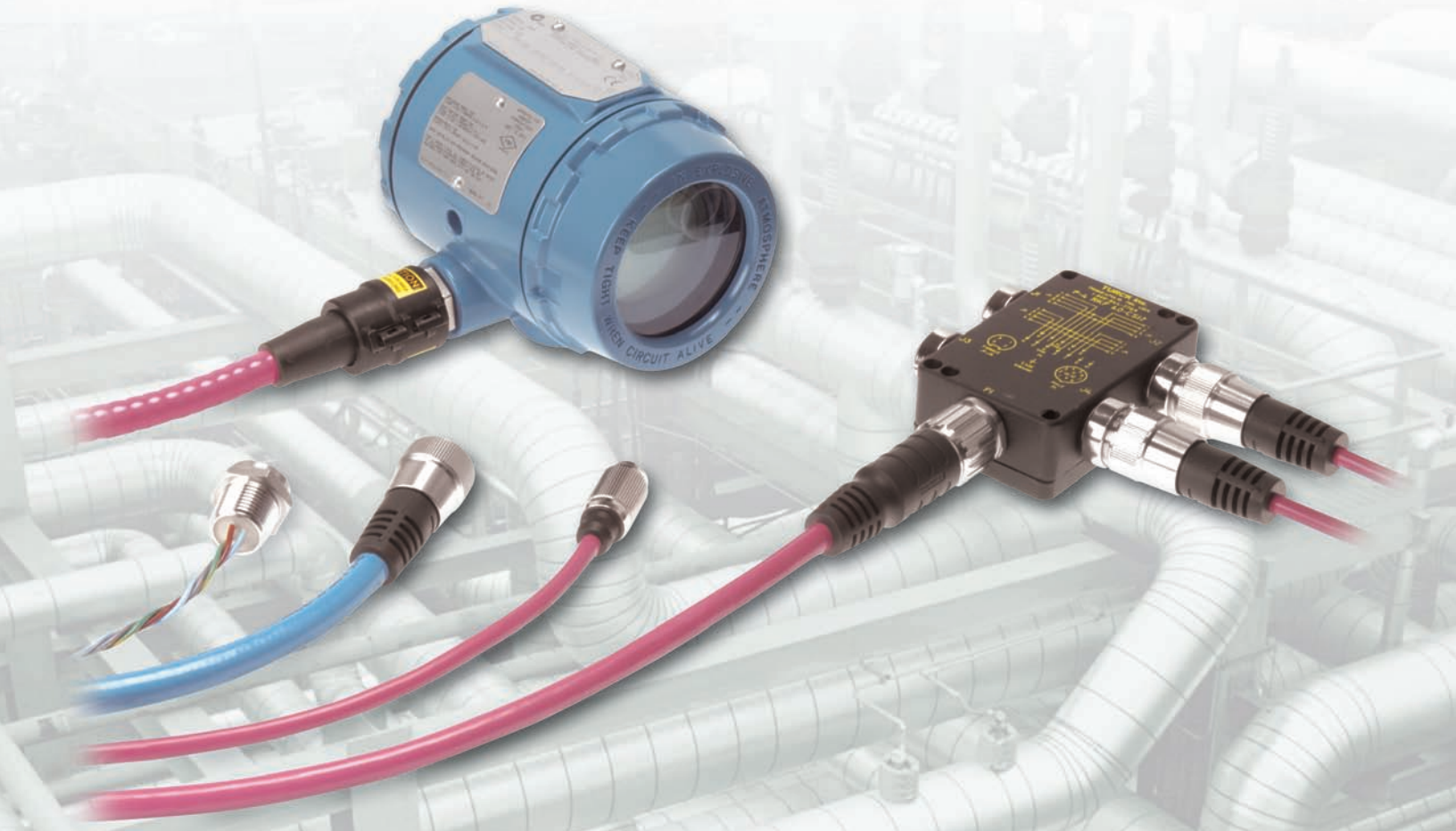
www.turck.com

····Sense It!····Connect It!····Bus It!

TURCK Process Wiring Solutions

This catalog contains products from **TURCK's** extensive line of industrial wiring products that are optimized for process applications. The receptacles, drop cords, junction boxes, home-run cables and accessories described within, comprise a process wiring system designed for the demanding conditions of process applications.

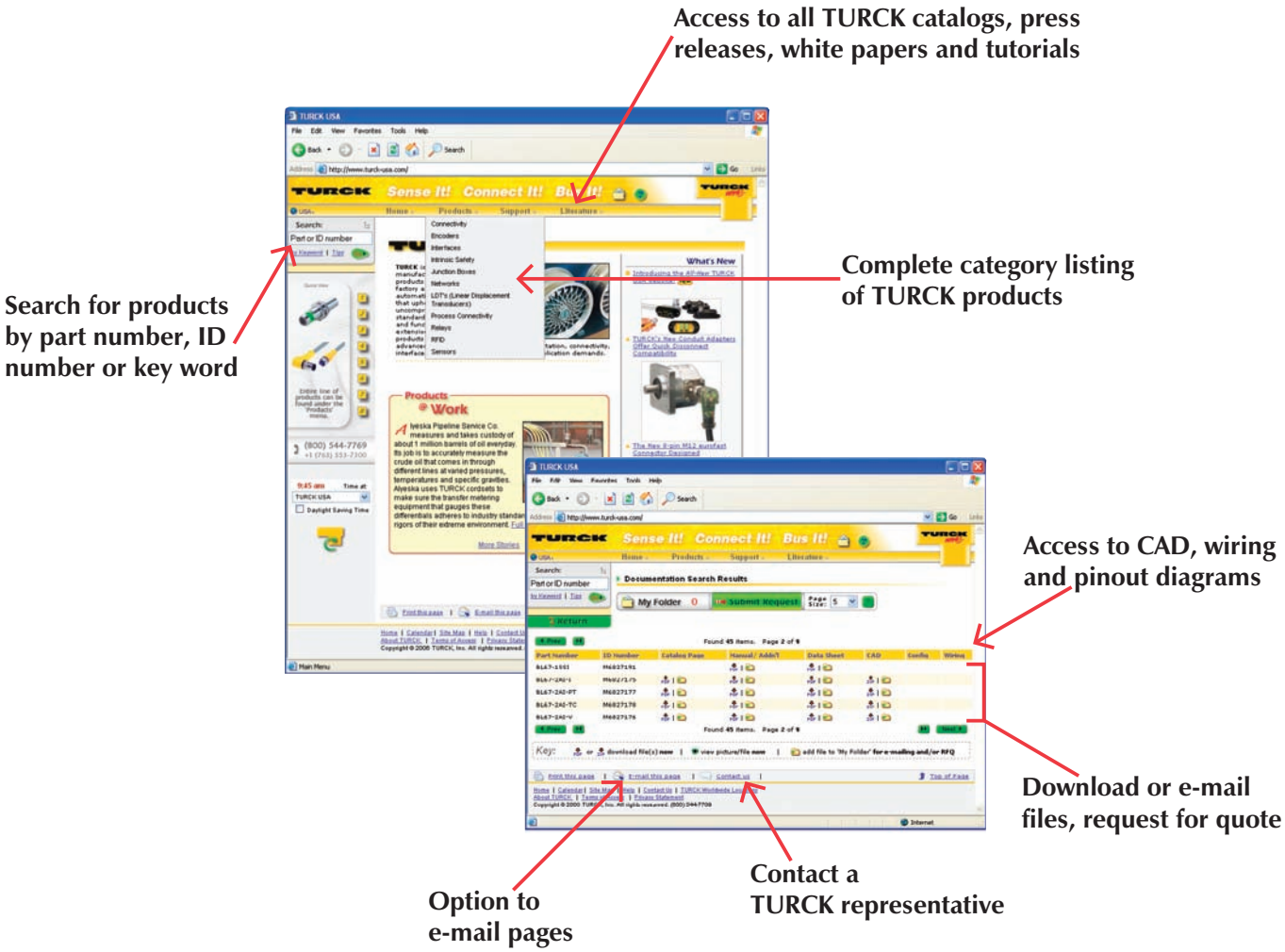
- Quick-disconnect design eliminates mis-wiring and speeds installation.
- Instrument receptacles, drop cords, junction boxes and home-run cordsets reduce multiple cable runs.
- Shielded-twisted pair construction serves analog and HART applications.
- Cables with premium PVC insulation provide superior chemical resistance and flexibility.
- Choice of stainless steel or nickel-plated brass hardware.
- Rated and approved for installation in process applications.
- Many products are FM approved for installations in hazardous locations.
- Cables are UL recognized and CSA certified.



TURCK
Process Wiring Solutions

TURCK's USA website is your most complete and up-to-date source for product documentation, CAD files and more. Search results produce downloadable documentation or request for quote (RFQ). Additional product information or CAD files are easily requested and promptly filled.

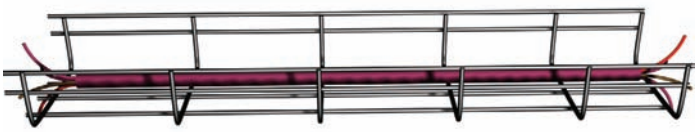
Visit our site for new product releases, approvals, white papers, application support and more.



www.turck.com

Code Requirements for Flexible Process Wiring Products
Ordinary (Nonhazardous) Locations

Figure 1



Type ITC cable, or Instrumentation Tray Cable, provides a cost effective alternative for installation of low power instrumentation and control circuits. The National Electrical Code's (NEC) Article 727 permits the use of ITC-rated cables "in industrial establishments where the conditions of maintenance and supervision ensure that only qualified persons service the installation". It may be used in "instrumentation and control circuits operating at 150 volts or less and 5 amps or less." Permitted uses include installation in cable trays or basket trays (Figure 1), or as Exposed Run wiring in specified circumstances.

One of the permitted uses as of ITC cable is illustrated in Figure 2. NEC's, Article 727.4(5) allows ITC cable without metallic sheath or armor between cable tray and equipment in lengths not to exceed 15 m (50 ft.), where the cable is supported and protected against physical damage using mechanical protection, such as struts, angles, or channels.

Figure 2

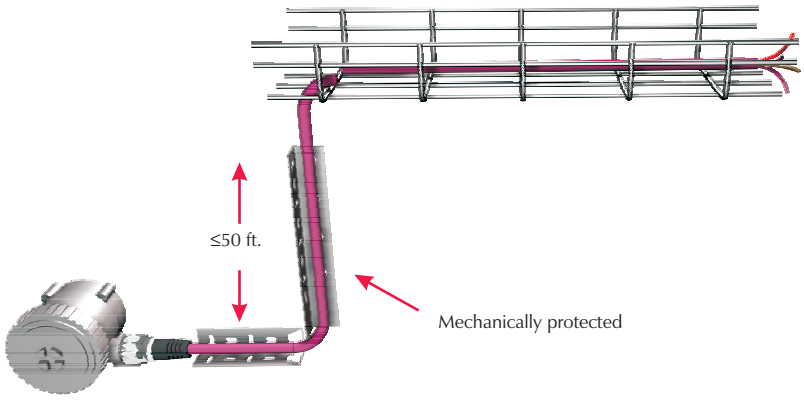
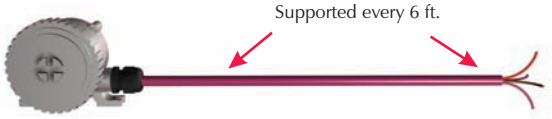


Figure 3



Another permitted use of ITC cable that increases flexibility is illustrated in Figure 3. NEC Article 727.4 (4) allows ITC cable to be used "as open wiring where enclosed in a smooth metallic sheath, continuous corrugated metallic sheath, or interlocking tape armor applied over the nonmetallic sheath in accordance with 727.6. The cable shall be supported and secured at intervals not exceeding 1.8 m (6 ft.)."

When using armored cable, there is no requirement for further mechanical protection or a length limitation. When using ITC cable that complies with the requirements of NEC 727.4(6) no further protection is required.

Code Requirements for Flexible Process Wiring Products
Ordinary (Nonhazardous) Locations

Requirements NEC 727.4(6) allows the installation of ITC cable that complies with the crush and impact of Type MC cable between the cable tray and equipment in lengths not to exceed 15 m (50 ft.) without additional protection. Cable meeting this requirement is identified as "Exposed Run" or "ER" (Figure 1).

This concept enables convenient wiring methods, given that drops from a cable tray may be made without additional auxiliary trays or raceways.

Additionally, ITC cable uses 300 volt insulation, resulting in smaller diameter, more flexible cable, with no requirement for special (e.g. Class II) power supplies. When the ITC cable concept is combined with the **TURCK** process wiring system, the result is an extremely flexible and cost-effective system for process wiring.

The basic building blocks of the system are device receptacles, junction boxes, and molded cordsets.

Figure 1

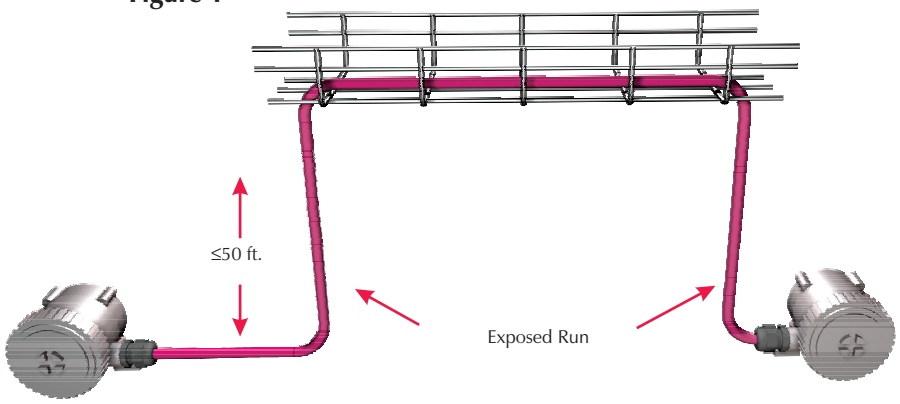
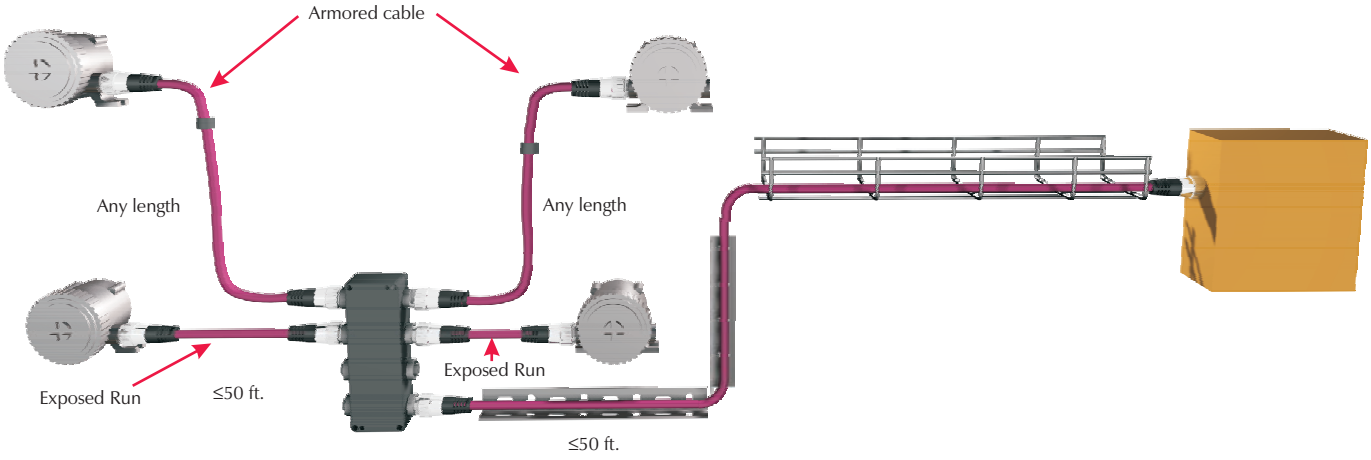


Figure 2



TURCK
Process Wiring Solutions

Receptacles with 1/2-14NPT and 3/4-14NPT threads, as well as M20x1.5, easily extend the benefits of quick-disconnect wiring to most process instruments.

Junction boxes can significantly consolidate field wiring. They are available in metal or nylon housings with 4 or 8 ports and home-run quick-disconnects or integral home-run cables.

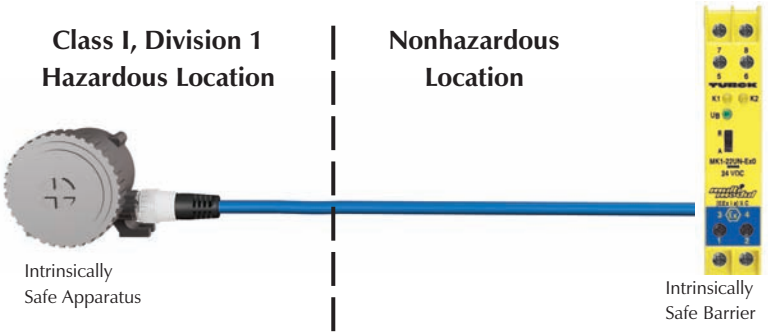
The **TURCK** process wiring system provides an integrated, code-compliant wiring method that adds the benefits of quick-disconnects to the ITC cable installation concepts.

Molded quick-disconnect cordsets, using ITC cable, provide the ratings and performance characteristics required for process applications.

Hazardous Locations

Even more value can be derived from the **TURCK** process wiring system in hazardous locations. The system is now FM approved for use in Class I, Divisions 1 and 2 when installed per **TURCK** drawing QCF-00147. Contact **TURCK** for a copy of the approval or visit www.turck.com/fmcd. The following are the highlights of the approval.

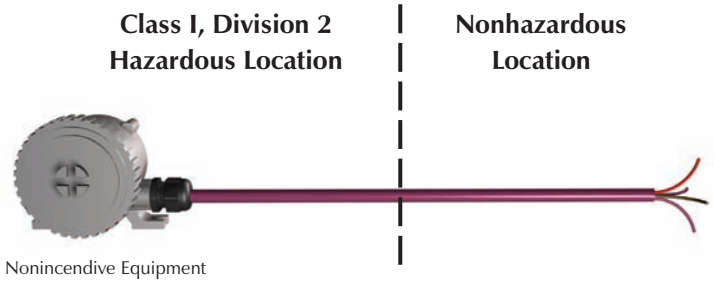
Intrinsically Safe Circuits



Intrinsically safe circuits may be wired using any of the wiring methods suitable for unclassified locations. The use of connectors is allowed as intrinsically safe circuits are safe against faults, including opening, shorting or grounding.

The same requirements for mechanical protection and length limitations apply as in nonhazardous locations.

Nonincendive Equipment



ITC cable is a recognized Division 2 wiring method. NEC in Article 501.10 (B)(1)(5) states "Type ITC cable as permitted in 727.4". This is further reinforced by Article 727.4 (3), which states that ITC cable is permitted "in hazardous locations as permitted in 501.10,...".

The same requirements for mechanical protection and length limitations apply as in nonhazardous locations.

Quick-disconnects require a tool to disengage and are considered “normally arcing”. They are not allowed to be used in Division 2 for incendive equipment without additional protection.

lokfast™ guards enable the use of quick-disconnect technology in Class I, Division 2 hazardous locations. ***lokfast*** guards render quick-disconnects not “normally arcing” by:
- Eliminating access to the coupling nut making disconnection impossible.
- Warning the user to disconnect power before removing.
- Requiring a tool for removal.

lokfast guards are available for 7/8-16UN ***minifast***® and M12 ***eurofast***® molded and field-wireable connectors.

Optional M23 ***multifast***® home-run connectors with set screw locks also render a connection not “normally arcing”.

lokfast guards (or integrally locked ***multifast*** connectors) on all quick disconnects in Division 2 (Figure 1).

The molded construction of the home-run connector and the gas/vapor tight continuous sheath meet the NEC Article 501-15(E)(2) requirements for cable seals in Division 2.

The same requirements for mechanical protection and length limitations apply as in to nonhazardous locations.

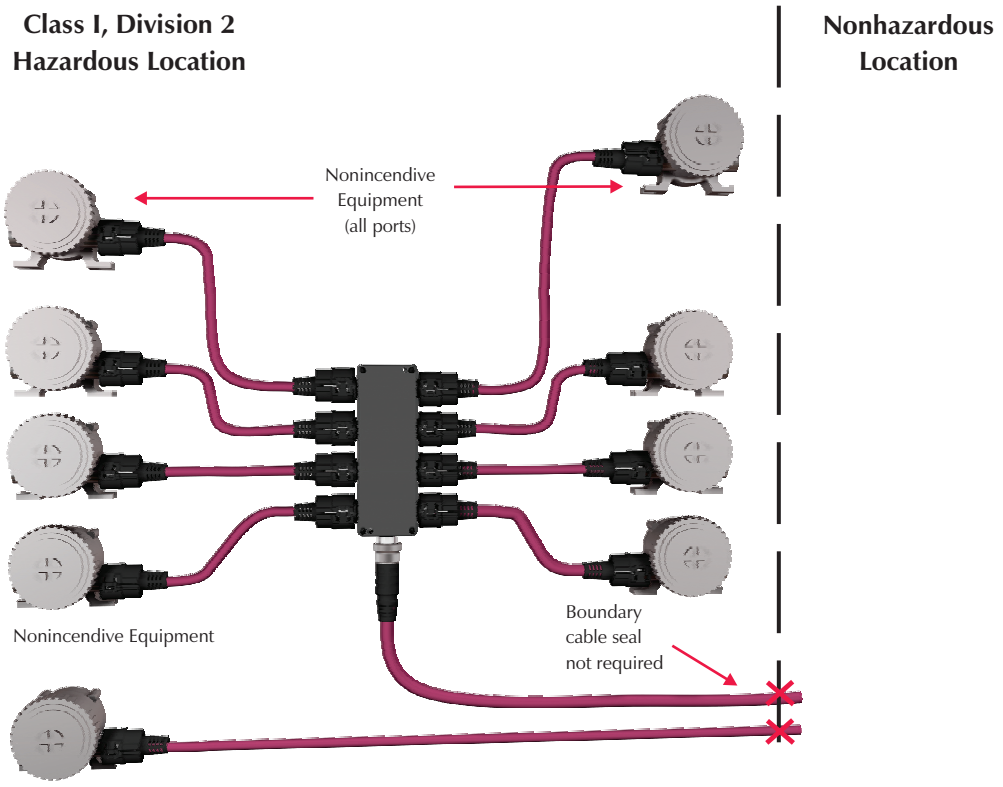


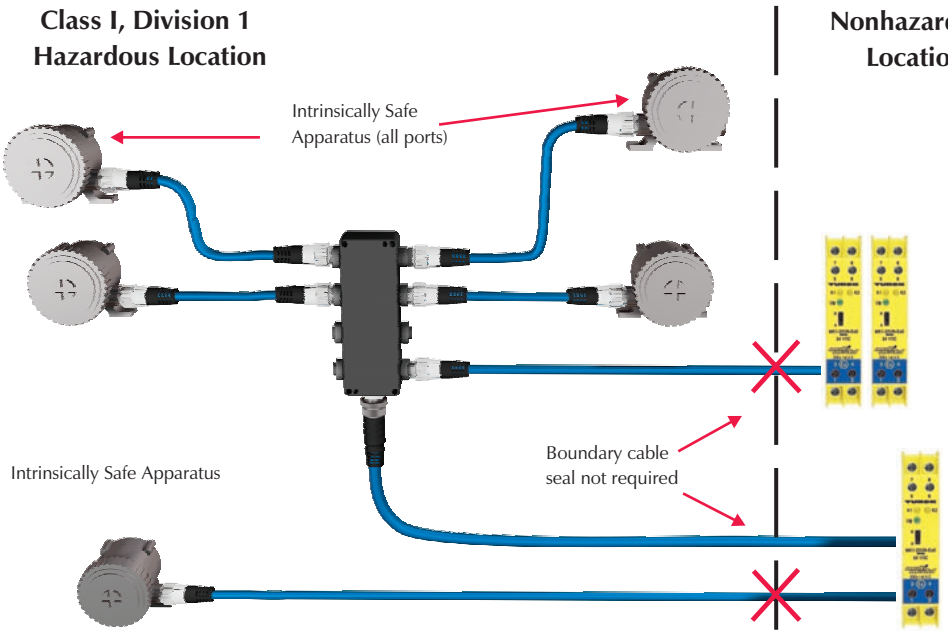
Figure 1

Intrinsic Safety Summary

Intrinsically safe circuits do not require additional protection for quick-disconnects.

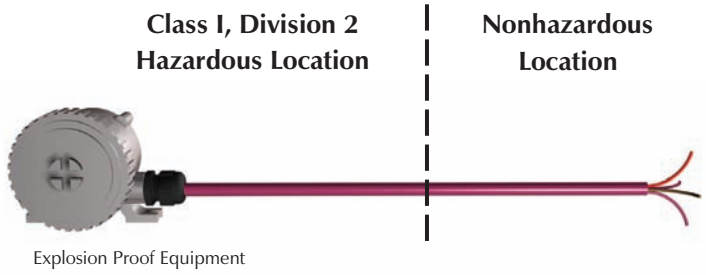
Junction boxes must have FM-approved spacings and entity parameters for intrinsically safe circuits.

Boundary seals are not required for this location, as the molded home-run connecter and the gas/vapor tight continuous cable sheath meet the NEC Article 501-15(C) requirements for cable seals in Class I, Divisions 1 and 2.



Requirements for mechanical protection and length limitations are equivalent to nonhazardous locations.

Explosion Proof Equipment



Explosion Proof Equipment

ITC cable, a recognized Division 2 wiring method, may be used to connect explosion proof equipment installed in Division 2 when used with an explosion proof feed-through receptacle. The extremely robust receptacle maintains the equipment's explosion containment protection scheme. The external wiring, however, is in Division 2, and can therefore be installed using Division 2 wiring methods.

2-Wire Analog or HART Control Circuit Selection Guide

M12 *eurofast*® Thread	Drop Cordsets	Receptacles with Cable	Receptacles with Leads	Junction Boxes
Pages	B5 - B9	B10 - B16	B17 - B22	B23 - B32

7/8" *minifast*® Thread	Drop Cordsets	Receptacles with Cable	Receptacles with Leads	Explosion Proof Receptacles	"Y" Fitting Receptacles	Junction Boxes
Pages	B37 - B44	B45 - B51	B53 - B62	B63 - B66	B67 - B68	B69 - B74

M23 *multifast*® Thread	Home Run Cordsets	Receptacles with Cable	Receptacles with Leads
Pages	B75 - B82	B83 - B84	B85 - B86

eurofast® Cordset Part Number Key, 2-Wire Analog or HART Control Circuits

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

P - R K G V | 4 T - 949 - 2 - RSGV 4T

P = Process Cordset

eurofast

R = Straight
W = Right Angle

Gender

K = Female Connector
S = Male Connector

Plug Body Style

E = Large Plug Body
G = Large, Robust Plug Body
R = Armored Plug Body, 22 AWG

Coupling Nut Options

(Blank) = Nickel Plated Brass
V = 316 Stainless Steel

T = T Barb Fitting
A = Armored Cable

Number of Wires / AWG / Color Codes / Cable Type

4T-162 = 3x18 AWG, BU, BN, GN/YE, ITC-Exposed Run/Direct Burial/PLTC PVC
4T-330 = 3x18 AWG, BU, BN, GN/YE, ITC-Exposed Run/Direct Burial/PLTC PVC
4T-949 = 3x18 AWG, BU, BN, GN/YE, ITC/PLTC PVC
4T-950 = 3x18 AWG, BU, BN, GN/YE, ITC/PLTC PVC
4.6T-124 = 3x18 AWG, BK, RD, GN/YE, ITC/PLTC PVC
4.61T-124 = 3x18 AWG, RD, BK, GN/YE, ITC/PLTC PVC
4A-993 = 3x22 AWG, BU, BN, GN/YE, ITC/PLTC Armor PVC

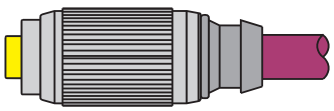
Length in Meters

Insertion Point of Extension Cable and 2nd Prefix*

* Female Connector Listed 1st, Male Connector 2nd
Example: P-RKGV 4T-949-2-RSGV 4T

Single Ended Example:

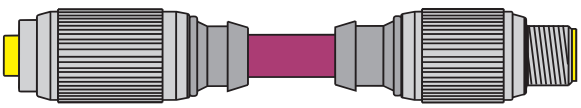
P - R K G | 4 T - 949 - 2



RKG ..

Extension Example:

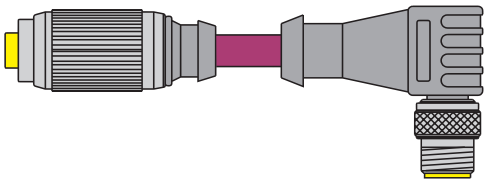
P - R K G | 4 T - 949 - 2 - R S G | 4 T



RKG .. - RSG ..

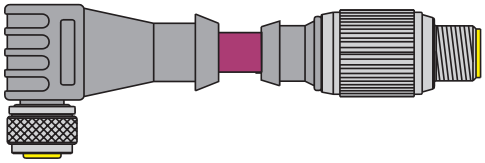
eurofast® Cordset Extension

Other Extension Examples:



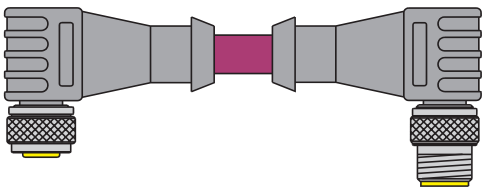
P - R K G | 4 T - 949 - 2 - W S E | 4 T

RKG .. - WSE ..



P - W K E | 4 T - 949 - 2 - R S G | 4 T

WKE .. - RSG ..



P - W K E | 4 T - 949 - 2 - W S E | 4 T

WKE .. - WSE ..

Note: Hybrid connector extensions also available. Consult factory.

eurofast® Receptacle with Cable Part Number Key, 2-Wire Analog or HART Control Circuits

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

P - F K [ ] V 4- 949 - 0.5 - /14.5/NPT

P = Process Receptacle

Designator for Receptacle

Gender
K = Female Connector
S = Male Connector

Housing Style
(Blank) = Front Mount

Housing Material
(Blank) = Nickel Plated Brass
V = 316 Stainless Steel

Thread Type
/14.5/NPT = 1/2-14NPT Threads
/14.75/NPT = 3/4-14NPT Threads
/M20 = M20x1 Threads

Length in Meters

Number of Wires / AWG / Color Codes / Cable Type
4-330 = 3x18 AWG, BU, BN, GN/YE, ITC-Exposed Run/Direct Burial/PLTC PVC
4-950 = 3x18 AWG, BU, BN, GN/YE, ITC/PLTC PVC
4-949 = 3x18 AWG, BU, BN, GN/YE, ITC/PLTC PVC
4-162 = 3x18 AWG, BU, BN, GN/YE, ITC-Exposed Run/Direct Burial/PLTC PVC
4.6-124 = 3x18 AWG, BK, RD, GN/YE, ITC/PLTC PVC
4.61-124 = 3x18 AWG, RD, BK, GN/YE, ITC/PLTC PVC

eurofast Receptacle with Leads Part Number Key, 2-Wire Analog or HART Control Circuits

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

P - F K [ ] V 4 - 0.5 - /14.5/NPT

P = Process Receptacle

Designator for Receptacle

Gender
K = Female Connector
S = Male Connector

Housing Style
(Blank) = Front Mount
P = Back Panel Mount

Housing Material
(Blank) = Nickel Plated Brass
V = 316 Stainless Steel

Thread Type
/14.5/NPT = 1/2-14NPT Threads
/14.75/NPT = 3/4-14NPT Threads
/M20 = M20x1.5 Threads

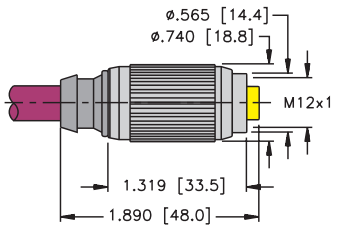
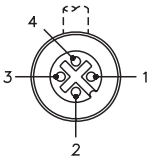
Length in Meters

Number of Wires
4 = 3
4D = 4 Including Drain
4.4 = 4
4.6D = 4 Including Drain

eurofast® Drop Cordsets, 2-Wire Analog or HART Control Circuits

- **Straight Female Connectors**
- **IEC IP 68 Protection**
- **250 V, 4 A (use as ITC limited to 150 V)**

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinout	
P-RKG .. 	P-RKG 4T-949-*	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-RKG 4T-162-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-RKG 4.6T-124-*	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-RKG 4.61T-124-*			1. RD 2. BK 3. Drain 4. GN/YE	
	P-RKG 4T-950-*	**ITC/PLTC PVC Blue 3x18 AWG 105°C 7.2 mm OD Cable #RF50950-*M†**	***Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-RKG 4T-330-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**			

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RKG.."; "P-RKGV.." indicates 316 stainless steel.

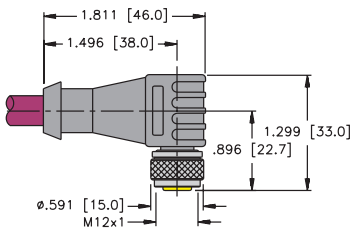
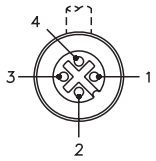
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast eurofast*** guards (Part Number: LOCK-EURO-G) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Drop Cordsets, 2-Wire Analog or HART Control Circuits

- **Right Angle Female Connectors**
- **IEC IP 68 Protection**
- **250 V, 4 A**
  (use as ITC limited to 150 V)

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinout	
P-WKE ..  	P-WKE 4T-949-*	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-WKE 4T-162-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-WKE 4.6T-124-*	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-WKE 4.61T-124-*			1. RD 2. BK 3. Drain 4. GN/YE	
	P-WKE 4T-950-*	**ITC/PLTC PVC Blue 3x18 AWG 105°C 7.2 mm OD Cable #RF50950-*M†**	***Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-WKE 4T-330-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**			

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-WKE.."; "P-WKEV.." indicates 316 stainless steel.

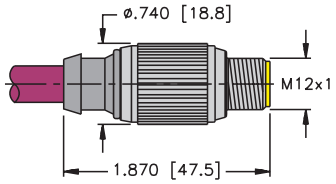
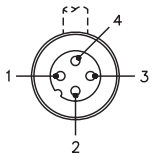
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast eurofast*** guards (Part Number: LOCK-EURO) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Drop Cordsets, 2-Wire Analog or HART Control Circuits

- **Straight Male Connectors**
- **IEC IP 68 Protection**
- **250 V, 4 A**
  (use as ITC limited to 150 V)

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinout	
P-RSG .. 	P-RSG 4T-949-*	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-RSG 4T-162-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-RSG 4.6T-124-*	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-RSG 4.61T-124-*			1. RD 2. BK 3. Drain 4. GN/YE	
	P-RSG 4T-950-*	**ITC/PLTC PVC Blue 3x18 AWG 105°C 7.2 mm OD Cable #RF50950-*M†**	***Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-RSG 4T-330-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**			

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RSG.."; "P-RSGV.." indicates 316 stainless steel.

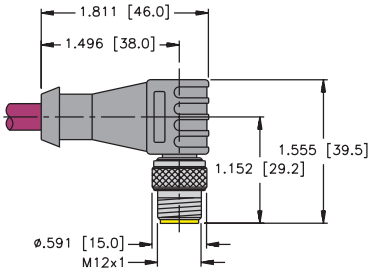
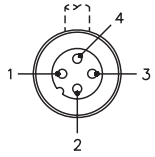
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast eurofast*** guards (Part Number: LOCK-EURO-G) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Drop Cordsets, 2-Wire Analog or HART Control Circuits

- **Right Angle Male Connectors**
- **IEC IP 68 Protection**
- **250 V, 4 A**
  (use as ITC limited to 150 V)

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinout	
P-WSE ..  	P-WSE 4T-949-*	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-WSE 4T-162-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-WSE 4.6T-124-*	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-WSE 4.61T-124-*			1. RD 2. BK 3. Drain 4. GN/YE	
	P-WSE 4T-950-*	**ITC/PLTC PVC Blue 3x18 AWG 105°C 7.2 mm OD Cable #RF50950-*M†**	***Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-WSE 4T-330-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**			

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-WSE.."; "P-WSEV.." indicates 316 stainless steel.

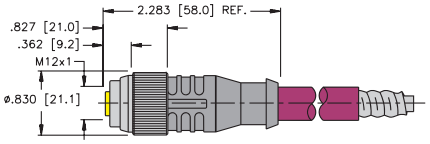
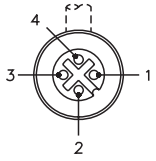
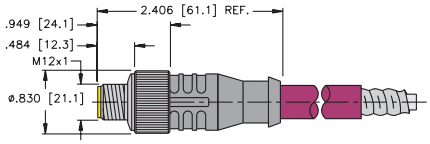
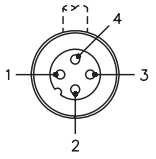
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast eurofast*** guards (Part Number: LOCK-EURO) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Drop Cordsets, 2-Wire Analog or HART Control Circuits

- **Straight Connectors**
- **IEC IP 68 Protection**
- **250 V, 4 A**
  (use as ITC limited to 150 V, 3 A)

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinout	
P-RKR .. 	P-RKR 4A-993-*	**ITC/PLTC ARMOR PVC Plum 3x22 AWG, 1 STP with GND Foil/Drain (24) 105°C 11.2 mm OD Cable #RF50993-*M†**	***Analog or HART control circuits in Extreme Conditions or Class I, Division 2 hazardous locations** or unclassified locations***	1. BU 2. BN 3. Drain 4. GN/YE	**Female** 
P-RSR .. 	P-RSR 4A-993-*				**Male** 

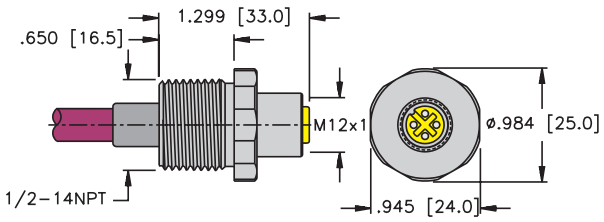
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass.

† See Section F for ***reelfast***® cable information.

** Use with ***lokfast eurofast*** guards (Part Number: LOCK-EURO-R) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

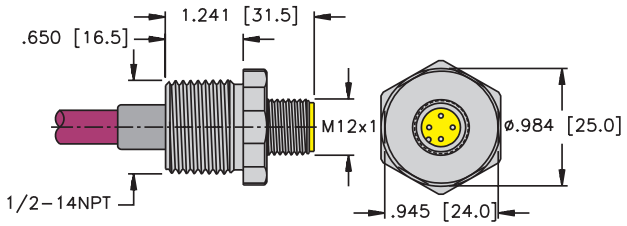
eurofast® Receptacles with Cable, 2-Wire Analog or HART Control Circuits

1



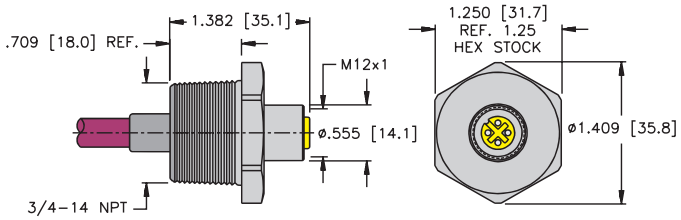
P-FK .. 14.5/NPT **Page B11**

2



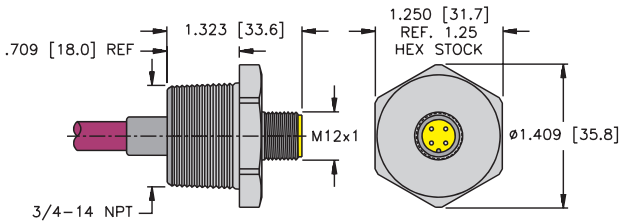
P-FS .. 14.5/NPT **Page B12**

3



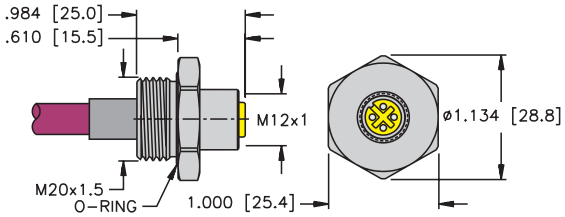
P-FK .. 14.75/NPT **Page B13**

4



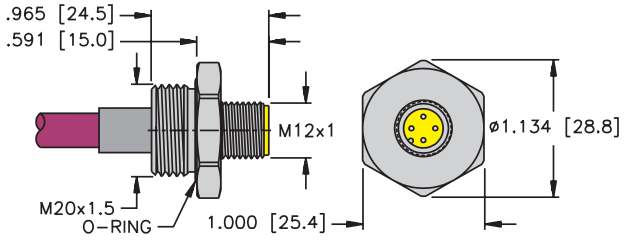
P-FS .. 14.75/NPT **Page B14**

5



P-FK .. M20 **Page B15**

6

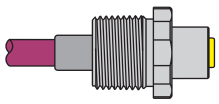
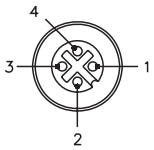


P-FS .. M20 **Page B16**

Note: Recommended panel cutout size and panel thickness.

eurofast® Receptacles with Cable, 2-Wire Analog or HART Control Circuits

- **Female Receptacles**
- **IEC IP 68 Protection**
- **250 V, 4 A (use as ITC limited to 150 V)**

Housing Style	Part Number	Cable	Application	Pinout	
1 	P-FK 4-949-*/14.5/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations or unclassified locations. 1/2-14NPT Threads.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-FK 4-162-*/14.5/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-FK 4.6-124-*/14.5/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-FK 4.61-124-*/14.5/NPT			1. RD 2. BK 3. Drain 4. GN/YE	
	P-FK 4-950-*/14.5/NPT	**ITC/PLTC PVC Blue 3x18 AWG 105°C 7.2 mm OD Cable #RF50950-*M†**	***Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations. 1/2-14NPT Threads.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-FK 4-330-*/14.5/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**			

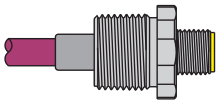
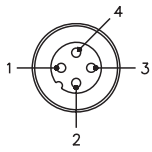
See page B10 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-FK.."; "P-FKV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Receptacles with Cable, 2-Wire Analog or HART Control Circuits

- **Male Receptacles**
- **IEC IP 68 Protection**
- **250 V, 4 A**
  (use as ITC limited to 150 V)

Housing Style	Part Number	Cable	Application	Pinout	
2 	P-FS 4-949-*/14.5/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**	*Analog or HART control circuits in Class I, Division 2 hazardous locations or unclassified locations. 1/2-14NPT Threads.*	1. BU 2. BN 3. Drain 4. GN/YE	
	P-FS 4-162-*/14.5/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-FS 4.6-124-*/14.5/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-FS 4.61-124-*/14.5/NPT			1. RD 2. BK 3. Drain 4. GN/YE	
	P-FS 4-950-*/14.5/NPT	**ITC/PLTC PVC Blue 3x18 AWG 105°C 7.2 mm OD Cable #RF50950-*M**	*Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations. 1/2-14NPT Threads.*	1. BU 2. BN 3. Drain 4. GN/YE	
	P-FS 4-330-*/14.5/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**			

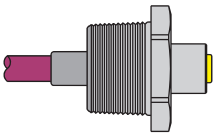
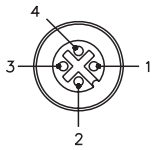
See page B10 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-FS.."; "P-FSV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Receptacles with Cable, 2-Wire Analog or HART Control Circuits

- **Female Receptacles**
- **IEC IP 68 Protection**
- **250 V, 4 A (use as ITC limited to 150 V)**

Housing Style	Part Number	Cable	Application	Pinout	
3 	P-FK 4-949-*/14.75/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations or unclassified locations. 3/4-14NPT Threads.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-FK 4-162-*/14.75/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-FK 4.6-124-*/14.75/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-FK 4.61-124-*/14.75/NPT			1. RD 2. BK 3. Drain 4. GN/YE	
	P-FK 4-950-*/14.75/NPT	**ITC/PLTC PVC Blue 3x18 AWG 105°C 7.2 mm OD Cable #RF50950-*M†**	***Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations. 3/4-14NPT Threads.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-FK 4-330-*/14.75/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**			

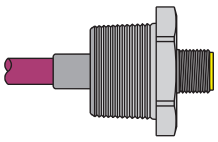
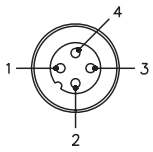
See page B10 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-FK.."; "P-FKV.." indicates 316 stainless steel.
Receptacles recommend 1-1/16" (27.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Receptacles with Cable, 2-Wire Analog or HART Control Circuits

- **Male Receptacles**
- **IEC IP 68 Protection**
- **250 V, 4 A**
  (use as ITC limited to 150 V)

Housing Style	Part Number	Cable	Application	Pinout	
4 	P-FS 4-949-*/14.75/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**	*Analog or HART control circuits in Class I, Division 2 hazardous locations or unclassified locations. 3/4-14NPT Threads.*	1. BU 2. BN 3. Drain 4. GN/YE	
	P-FS 4-162-*/14.75/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-FS 4.6-124-*/14.75/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-FS 4.61-124-*/14.75/NPT			1. RD 2. BK 3. Drain 4. GN/YE	
	P-FS 4-950-*/14.75/NPT	**ITC/PLTC PVC Blue 3x18 AWG 105°C 7.2 mm OD Cable #RF50950-*M†**	*Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations. 3/4-14NPT Threads.*	1. BU 2. BN 3. Drain 4. GN/YE	
	P-FS 4-330-*/14.75/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**			

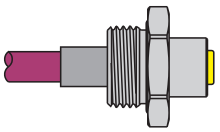
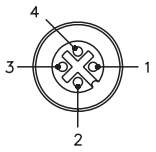
See page B10 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-FS.."; "P-FSV.." indicates 316 stainless steel.
Receptacles recommend 1-1/16" (27.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Receptacles with Cable, 2-Wire Analog or HART Control Circuits

- **Female Receptacles**
- **IEC IP 68 Protection**
- **250 V, 4 A (use as ITC limited to 150 V)**

Housing Style	Part Number	Cable	Application	Pinout	
5 	P-FK 4-949-*/M20	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**	*Analog or HART control circuits in Class I, Division 2 hazardous locations or unclassified locations. M20 Threads.*	1. BU 2. BN 3. Drain 4. GN/YE	
	P-FK 4-162-*/M20	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-FK 4.6-124-*/M20	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-FK 4.61-124-*/M20			1. RD 2. BK 3. Drain 4. GN/YE	
	P-FK 4-950-*/M20	**ITC/PLTC PVC Blue 3x18 AWG 105°C 7.2 mm OD Cable #RF50950-*M†**	*Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations. M20 Threads.*	1. BU 2. BN 3. Drain 4. GN/YE	
	P-FK 4-330-*/M20	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**			

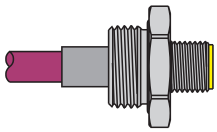
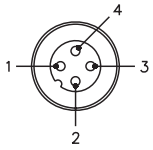
See page B10 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-FK.."; "P-FKV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Receptacles with Cable, 2-Wire Analog or HART Control Circuits

- **Male Receptacles**
- **IEC IP 68 Protection**
- **250 V, 4 A**
  (use as ITC limited to 150 V)

Housing Style	Part Number	Cable	Application	Pinout	
6 	P-FS 4-949-*/M20	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**	*Analog or HART control circuits in Class I, Division 2 hazardous locations or unclassified locations. M20 Threads.*	1. BU 2. BN 3. Drain 4. GN/YE	
	P-FS 4-162-*/M20	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-FS 4.6-124-*/M20	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-FS 4.61-124-*/M20			1. RD 2. BK 3. Drain 4. GN/YE	
	P-FS 4-950-*/M20	**ITC/PLTC PVC Blue 3x18 AWG 105°C 7.2 mm OD Cable #RF50950-*M†**	*Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations. M20 Threads.*	1. BU 2. BN 3. Drain 4. GN/YE	
	P-FS 4-330-*/M20	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**			

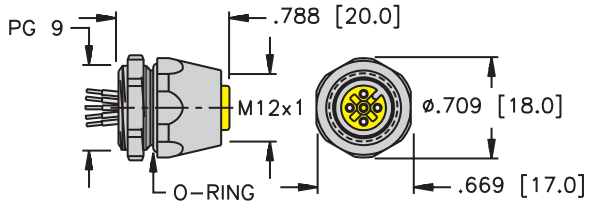
See page B10 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-FS.."; "P-FSV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

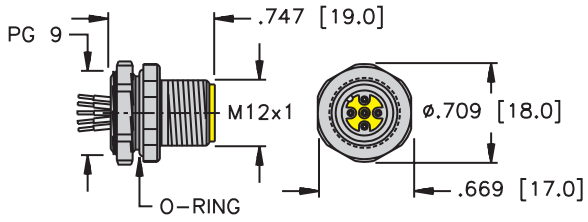
eurofast® Receptacles with Leads, 2-Wire Analog or HART Control Circuits

1



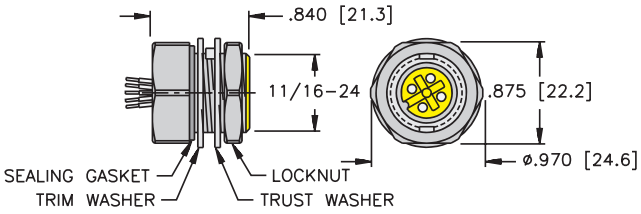
P-FK .. **Page B19**

2



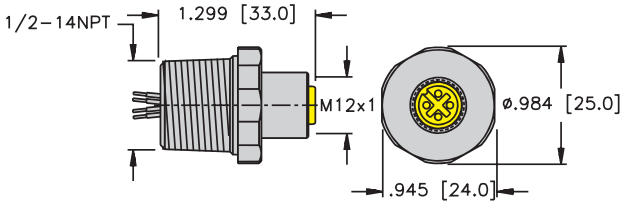
P-FS .. **Page B20**

3



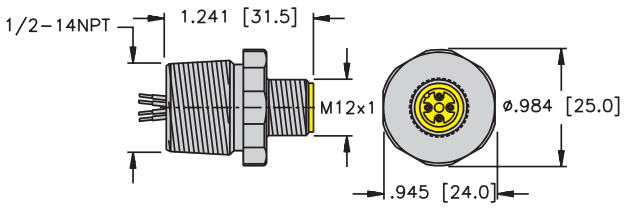
P-FKP .. **Page B19**

4



P-FK ../14.5/NPT **Page B21**

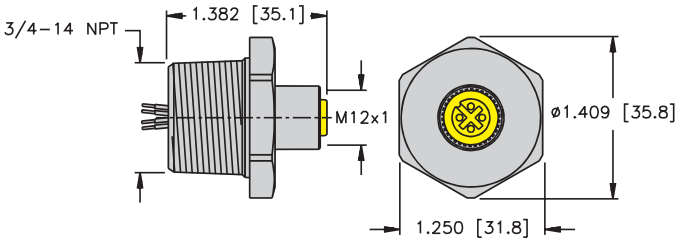
5



P-FS ../14.5/NPT **Page B22**

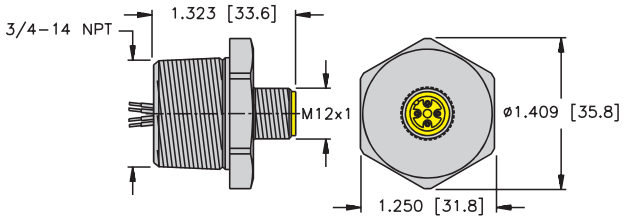
eurofast® Receptacles with Leads, 2-Wire Analog or HART Control Circuits

6



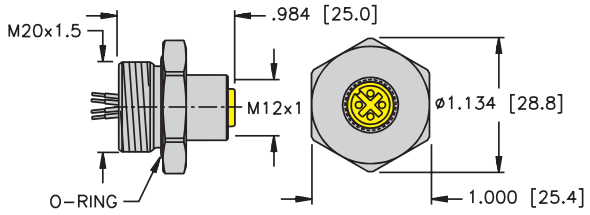
P-FK ../14.75/NPT **Page B21**

7



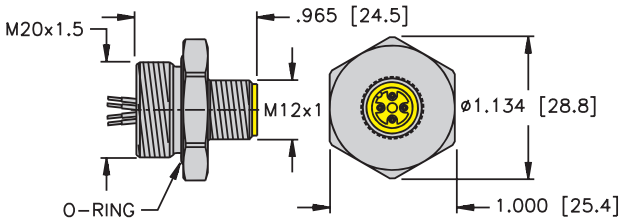
P-FS ../14.75/NPT **Page B22**

8



P-FK ../M20 **Page B21**

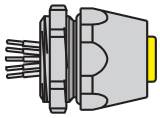
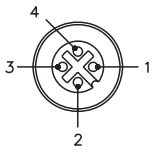
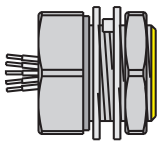
9



P-FS ../M20 **Page B22**

eurofast® Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 68 Protection**

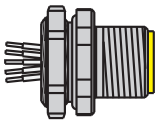
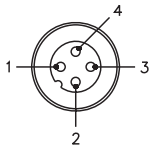
Housing Style	Part Number	Lead Specs	Features	Pinout	
1 	P-FK 4-*	**UL, CSA 3x18 AWG 105°C 250 V, 4 A**	***PG 9 Threads, Front Panel Mount***	1. BU 2. BN 3. N/C 4. GN/YE	
	P-FK 4D-*	**UL, CSA 4x18 AWG 105°C 250 V, 4 A**	***PG 9 Threads, Front Panel Mount, Drain Wire***	1. BU 2. BN 3. GY 4. GN/YE	
3 	P-FKP 4-*	**UL, CSA 3x18 AWG 105°C 250 V, 4 A**	***Back Panel Mount***	1. BU 2. BN 3. N/C 4. GN/YE	
	P-FKP 4D-*	**UL, CSA 4x18 AWG 105°C 250 V, 4 A**	***Back Panel Mount, Drain Wire***	1. BU 2. BN 3. GY 4. GN/YE	

See page B17 for dimensional drawings.

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Housing material listed is nickel plated brass "P-FK(P).."; "P-FK(P)V.." indicates 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 68 Protection**

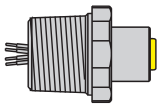
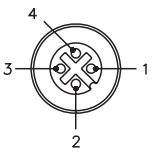
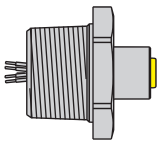
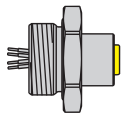
Housing Style	Part Number	Lead Specs	Features	Pinout	
2 	P-FS 4-*	**UL, CSA** **3x18 AWG** **105°C** **250 V, 4 A**	***PG 9 Threads, Front Panel Mount***	1. BU 2. BN 3. N/C 4. GN/YE	
	P-FS 4D-*	**UL, CSA** **4x18 AWG** **105°C** **250 V, 4 A**	***PG 9 Threads, Front Panel Mount, Drain Wire***	1. BU 2. BN 3. GY 4. GN/YE	

See page B17 for dimensional drawings.

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Housing material listed is nickel plated brass "P-FS.."; "P-FSV.." indicates 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 68 Protection**

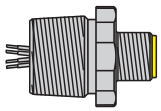
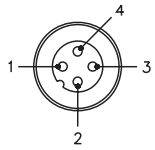
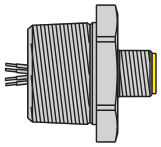
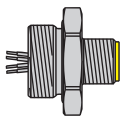
Housing Style	Part Number	Lead Specs	Features	Pinout	
4 	P-FK 4-*/14.5/NPT	**UL, CSA 3x18 AWG 105°C 250 V, 4 A**	***1/2-14NPT Threads***	1. BU 2. BN 3. N/C 4. GN/YE	
	P-FK 4D-*/14.5/NPT	**UL, CSA 4x18 AWG 105°C 250 V, 4 A**	***1/2-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GY 4. GN/YE	
	P-FK 4.4-*/14.5/NPT	**UL, CSA 4x18 AWG 105°C 250 V, 4 A**	***1/2-14NPT Threads***	1. BU 2. BN 3. WH 4. BK	
	P-FK 4.6D-*/14.5/NPT	**UL, CSA 4x18 AWG 105°C 250 V, 4 A**	***1/2-14NPT Threads***	1. BK 2. RD 3. GY 4. GN/YE	
6 	P-FK 4-*/14.75/NPT	**UL, CSA 3x18 AWG 105°C 250 V, 4 A**	***3/4-14NPT Threads***	1. BU 2. BN 3. N/C 4. GN/YE	
	P-FK 4D-*/14.75/NPT	**UL, CSA 4x18 AWG 105°C 250 V, 4 A**	***3/4-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GY 4. GN/YE	
8 	P-FK 4-*/M20	**UL, CSA 3x18 AWG 105°C 250 V, 4 A**	***M20 Threads***	1. BU 2. BN 3. N/C 4. GN/YE	
	P-FK 4D-*/M20	**UL, CSA 4x18 AWG 105°C 250 V, 4 A**	***M20 Threads, Drain Wire***	1. BU 2. BN 3. GY 4. GN/YE	

See pages B17 - B18 for dimensional drawings.

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Housing material listed is nickel plated brass "P-FK.."; "P-FKV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting. 1/2-14NPT and M20, 1-1/16" (27.0 mm) for 3/4-14NPT.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- Male Receptacles
- NEMA 1, 3, 4, 6P and IEC IP 68 Protection

Housing Style	Part Number	Lead Specs	Features	Pinout	
5 	P-FS 4-*/14.5/NPT	**UL, CSA 3x18 AWG 105°C 250 V, 4 A**	***1/2-14NPT Threads***	1. BU 2. BN 3. N/C 4. GN/YE	
	P-FS 4D-*/14.5/NPT	**UL, CSA 4x18 AWG 105°C 250 V, 4 A**	***1/2-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GY 4. GN/YE	
	P-FS 4.4-*/14.5/NPT	**UL, CSA 4x18 AWG 105°C 250 V, 4 A**	***1/2-14NPT Threads***	1. BU 2. BN 3. WH 4. BK	
	P-FS 4.6D-*/14.5/NPT	**UL, CSA 4x18 AWG 105°C 250 V, 4 A**	***1/2-14NPT Threads***	1. BK 2. RD 3. GY 4. GN/YE	
7 	P-FS 4-*/14.75/NPT	**UL, CSA 3x18 AWG 105°C 250 V, 4 A**	***3/4-14NPT Threads***	1. BU 2. BN 3. N/C 4. GN/YE	
	P-FS 4D-*/14.75/NPT	**UL, CSA 4x18 AWG 105°C 250 V, 4 A**	***3/4-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GY 4. GN/YE	
9 	P-FS 4-*/M20	**UL, CSA 3x18 AWG 105°C 250 V, 4 A**	***M20 Threads***	1. BU 2. BN 3. N/C 4. GN/YE	
	P-FS 4D-*/M20	**UL, CSA 4x18 AWG 105°C 250 V, 4 A**	***M20 Threads, Drain Wire***	1. BU 2. BN 3. GY 4. GN/YE	

See pages B17 - B18 for dimensional drawings.

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Housing material listed is nickel plated brass "P-FS.."; "P-FSV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting. 1/2-14NPT and M20, 1-1/16" (27.0 mm) for 3/4-14NPT.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

multibox® *eurofast*® Nylon Junction Boxes w/Integral Home Run Cable

- **Consolidation of 2-wire Analog or HART Control Circuits in Hazardous Locations or Unclassified Locations**

FM APPROVED

FM approved for installation in hazardous locations when installed per **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) using specified accessory equipment.

4-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
4-port glass-filled nylon junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 4/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 10.0 mm OD	Port, Pin — Wire Color Port 1, Pin 1 — WH/BK Port 1, Pin 2 — BK/WH Port 2, Pin 1 — WH/GN Port 2, Pin 2 — GN/WH Port 3, Pin 1 — WH/RD Port 3, Pin 2 — RD/WH Port 4, Pin 1 — WH/OG Port 4, Pin 2 — OG/WH Ports 1-4, Pin 3 — Drain Ports 1-4, Pin 4 — GN/YE	P-4MB12-4-960-*	P-4MBV12-4-960-*

8-port, 1 Analog Signal Per Port, Common Ground and Shield

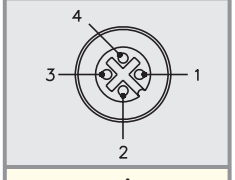
Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
8-port glass-filled nylon junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 8/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 12.0 mm OD	Port, Pin — Wire Color Port 1, Pin 1 — WH/BK Port 1, Pin 2 — BK/WH Port 2, Pin 1 — WH/GN Port 2, Pin 2 — GN/WH Port 3, Pin 1 — WH/RD Port 3, Pin 2 — RD/WH Port 4, Pin 1 — WH/OG Port 4, Pin 2 — OG/WH Port 5, Pin 1 — WH/BU Port 5, Pin 2 — BU/WH Port 6, Pin 1 — WH/BN Port 6, Pin 2 — BN/WH Port 7, Pin 1 — WH/YE Port 7, Pin 2 — YE/WH Port 8, Pin 1 — WH/VT Port 8, Pin 2 — VT/WH Ports 1-8, Pin 3 — Drain Ports 1-8, Pin 4 — GN/YE	P-8MB12-4-959-*	P-8MBV12-4-959-*

* Length in meters.

† Each circuit has dedicated drain wire not connected in the junction box.

Pinouts

Female



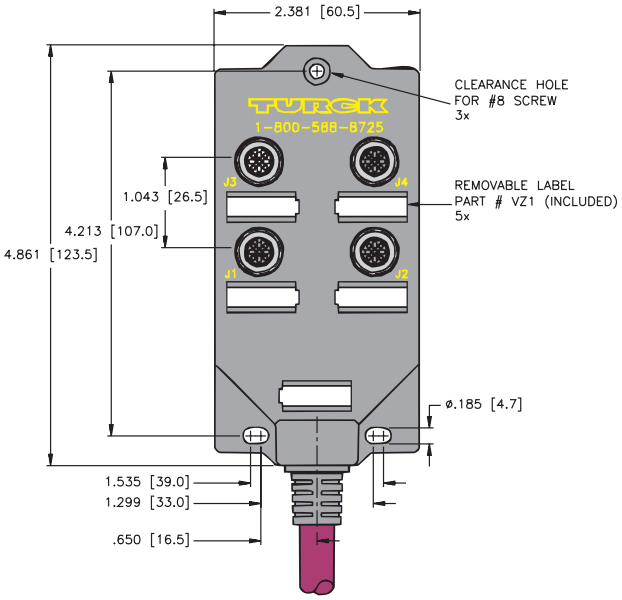
4-pin

Specifications

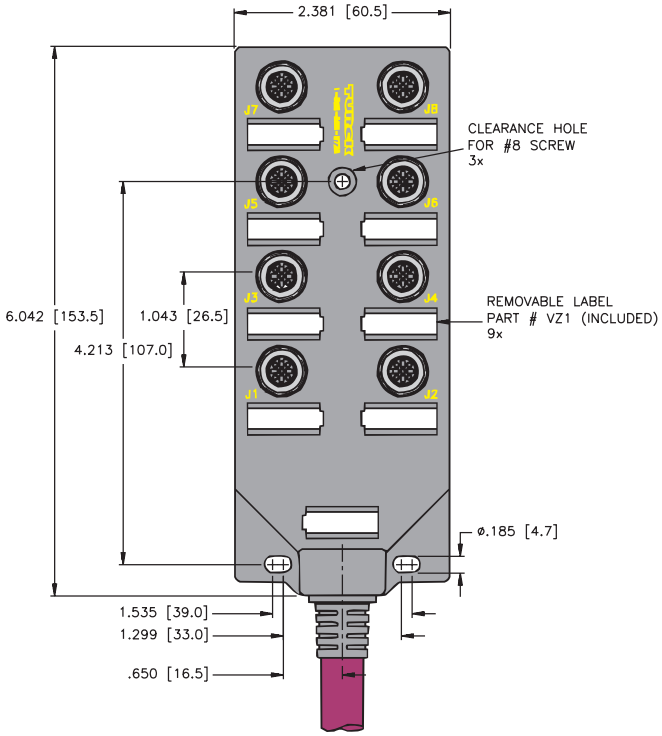
Housing:	Glass filled nylon.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), Nylon contact carriers.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 68.
Cable:	Plum PVC jacket, UL UTC/PLTC/AWM, CSA CMX-Outdoor/CMG/AWM FT4, 300 V, 105°C.
Electrical Rating:	100 V, 4 A per conductor (use as ITC is limited to 3 A for 22 AWG conductors).

Dimensions

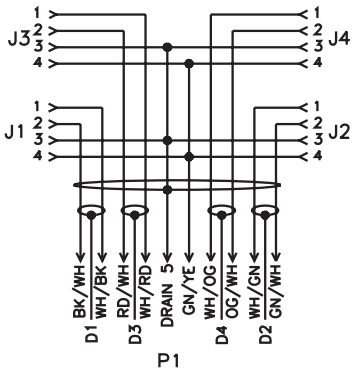
4-Port



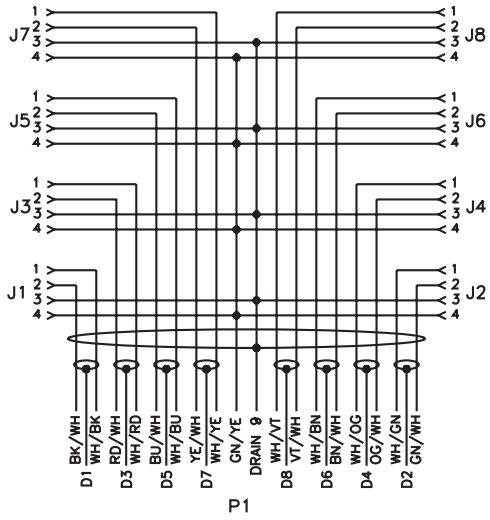
8-Port



4-Port



8-Port



multibox® *eurofast*® Nylon Junction Boxes w/Integral Home Run Cable

- **Consolidation of 2-wire Analog or HART Control Circuits in Hazardous Locations or Unclassified Locations**
- **Blue Jacket Color May Be Used as Identification of Intrinsically Safe Circuits**

FM APPROVED

FM approved for installation in hazardous locations when installed per **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) using specified accessory equipment.

4-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
4-port glass-filled nylon junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 4/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 10.0 mm OD	Port, Pin — Wire Color Port 1, Pin 1 — WH/BK Port 1, Pin 2 — BK/WH Port 2, Pin 1 — WH/GN Port 2, Pin 2 — GN/WH Port 3, Pin 1 — WH/RD Port 3, Pin 2 — RD/WH Port 4, Pin 1 — WH/OG Port 4, Pin 2 — OG/WH Ports 1-4, Pin 3 — Drain Ports 1-4, Pin 4 — GN/YE	P-4MB12-4-978-*	P-4MBV12-4-978-*

8-port, 1 Analog Signal Per Port, Common Ground and Shield

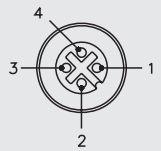
Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
8-port glass-filled nylon junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 8/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 12.0 mm OD	Port, Pin — Wire Color Port 1, Pin 1 — WH/BK Port 1, Pin 2 — BK/WH Port 2, Pin 1 — WH/GN Port 2, Pin 2 — GN/WH Port 3, Pin 1 — WH/RD Port 3, Pin 2 — RD/WH Port 4, Pin 1 — WH/OG Port 4, Pin 2 — OG/WH Port 5, Pin 1 — WH/BU Port 5, Pin 2 — BU/WH Port 6, Pin 1 — WH/BN Port 6, Pin 2 — BN/WH Port 7, Pin 1 — WH/YE Port 7, Pin 2 — YE/WH Port 8, Pin 1 — WH/VT Port 8, Pin 2 — VT/WH Ports 1-8, Pin 3 — Drain Ports 1-8, Pin 4 — GN/YE	P-8MB12-4-977-*	P-8MBV12-4-977-*

* Length in meters.

† Each circuit has dedicated drain wire not connected in the junction box.

Pinouts

Female



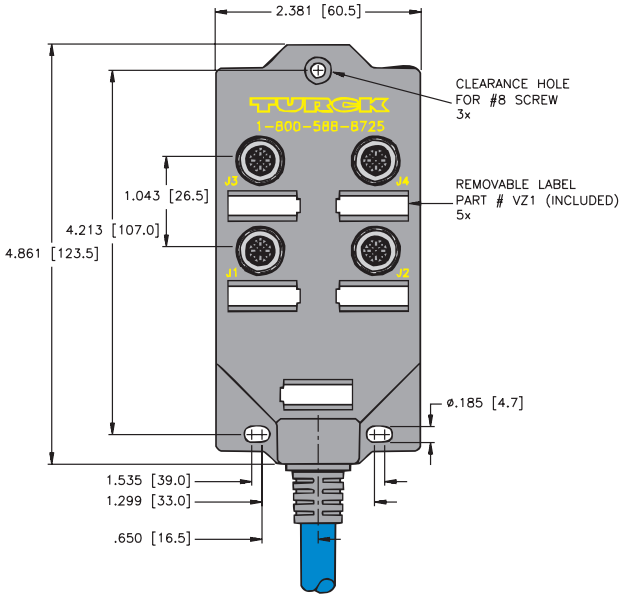
4-Pin

Specifications

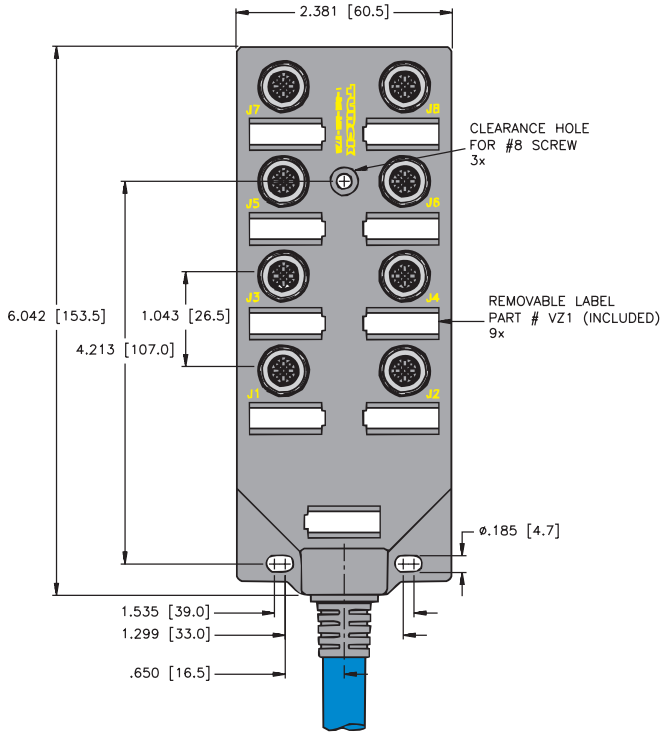
Housing:	Glass filled nylon.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), Nylon contact carriers.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 68.
Cable:	Blue PVC jacket, UL ITC/PLTC/AWM, CSA CMX-Outdoor/CMG/AWM FT4, 300 V, 105°C.
Electrical Rating:	100 V, 4 A per conductor (use as ITC is limited to 3 A for 22 AWG conductors).

Dimensions

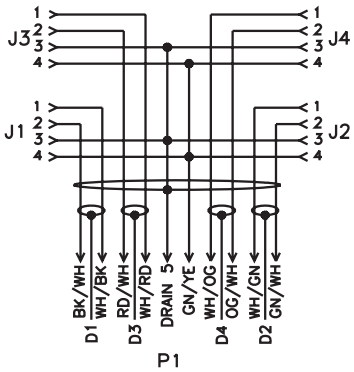
4-Port



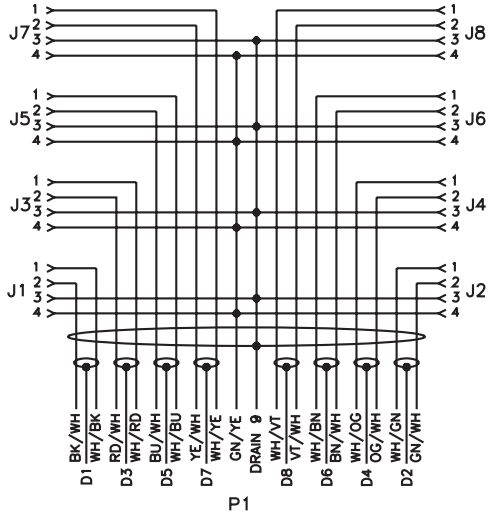
8-Port



4-Port



8-Port



multibox® *eurofast*® Metal Junction Boxes w/Integral Home Run Cable

- **Consolidation of 2-wire Analog or HART Control Circuits in Hazardous Locations** or Unclassified Locations.**

FM APPROVED

FM approved for installation in hazardous locations when installed per **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) using specified accessory equipment.

4-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
4-port cast aluminum junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 4/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 10.0 mm OD	Port, Pin / Wire Color Port 1, Pin 1 — WH/BK Port 1, Pin 2 — BK/WH Port 2, Pin 1 — WH/GN Port 2, Pin 2 — GN/WH Port 3, Pin 1 — WH/RD Port 3, Pin 2 — RD/WH Port 4, Pin 1 — WH/OG Port 4, Pin 2 — OG/WH Ports 1-4, Pin 3 — Drain Ports 1-4, Pin 4 — GN/YE	P-VBM 40-960-*	P-VBMV 40-960-*

8-port, 1 Analog Signal Per Port, Common Ground and Shield

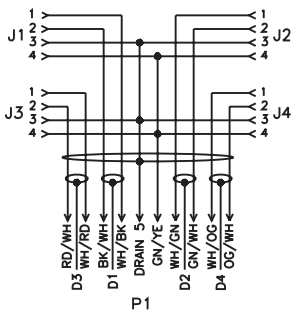
Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
8-port cast aluminum junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 8/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 12.0 mm OD	Port, Pin / Wire Color Port 1, Pin 1 — WH/BK Port 1, Pin 2 — BK/WH Port 2, Pin 1 — WH/GN Port 2, Pin 2 — GN/WH Port 3, Pin 1 — WH/RD Port 3, Pin 2 — RD/WH Port 4, Pin 1 — WH/OG Port 4, Pin 2 — OG/WH Port 5, Pin 1 — WH/BU Port 5, Pin 2 — BU/WH Port 6, Pin 1 — WH/BN Port 6, Pin 2 — BN/WH Port 7, Pin 1 — WH/YE Port 7, Pin 2 — YE/WH Port 8, Pin 1 — WH/VT Port 8, Pin 2 — VT/WH Ports 1-8, Pin 3 — Drain Ports 1-8, Pin 4 — GN/YE	P-VBM 80-959-*	P-VBMV 80-959-*

* Length in meters.

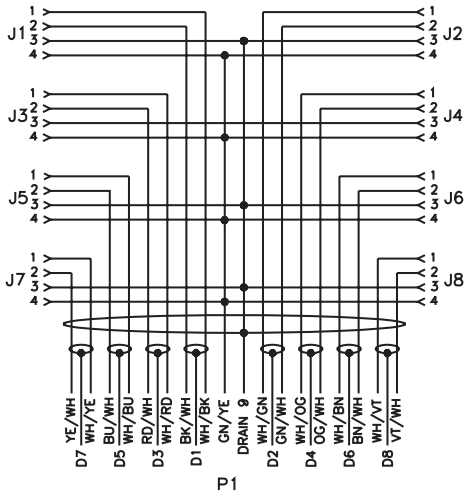
** Use with ***lokfast*** LOCK-EURO-G or LOCK-EURO-FW for port connectors in Class I, Division 2 applications.

† Each circuit has an additional dedicated drain wire not connected in the junction box.

4-Port



8-Port

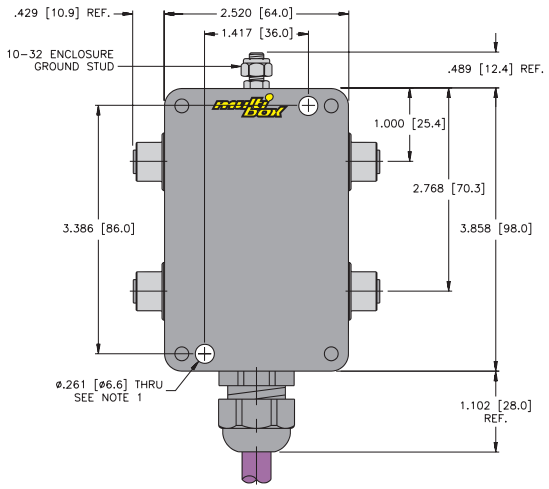


Specifications

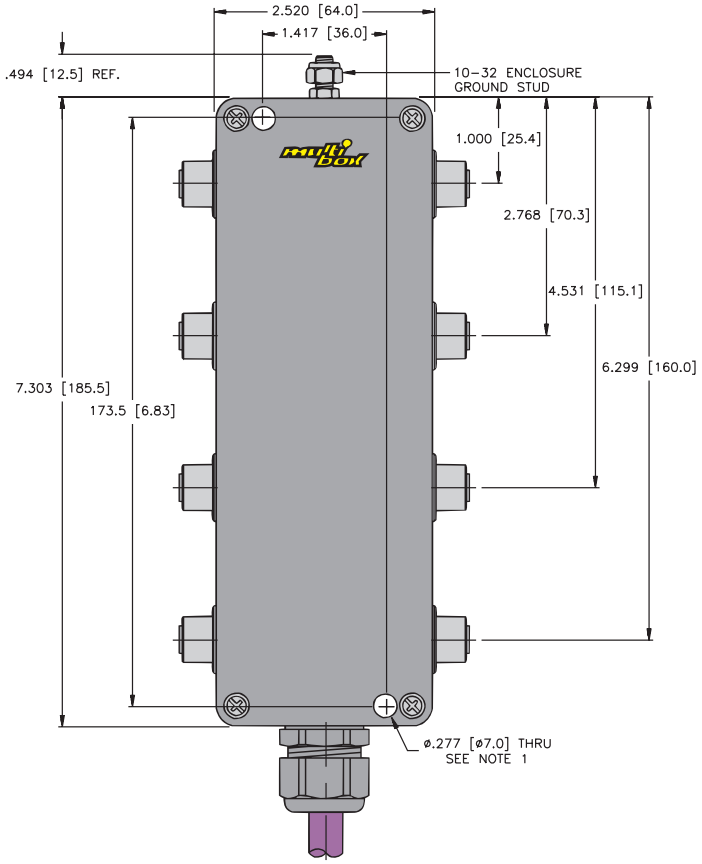
Housing:	Die-cast aluminum alloy.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), oil resistant PUR contact carrier.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 68.
Cable:	Plum PVC jacket, UL UTC/PLTC/AWM, CSA CMX-Outdoor/CMG/AWM FT4, 300 V, 105°C.
Electrical Rating:	250 V, 4 A per conductor (use as ITC is limited to 150 V, 3 A for 22 AWG conductors).

Dimensions

4-Port

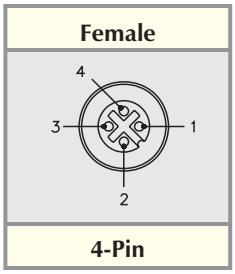


8-Port



Notes:
1. Clearance hole for 1/4-20 mounting screws (2 not included).

Pinouts



multibox® eurofast® Nylon Junction Boxes

- **Consolidation of 2-wire Analog or HART Control Circuits in Hazardous Locations or Unclassified Locations.**

FM APPROVED

FM approved for installation in hazardous locations when installed per **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) using specified accessory equipment.

4-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
		Port, Pin	Home-Run	Port, Pin	Home-Run		
4-port glass-filled nylon junction box, ***eurofast*** port connectors, ***multifast*** ® home-run connector	12-pin ***multifast*** connector	Port 1, Pin 1	1	Port 4, Pin 1	7	P-4MB12-4-CS12	P-4MBV12-4-CSV12
		Port 1, Pin 2	2	Port 4, Pin 2	8		
		Port 2, Pin 1	3	NC	9		
		Port 2, Pin 2	4	NC	10		
		Port 3, Pin 1	5	Ports 1-4, Pin 3	11		
		Port 3, Pin 2	6	Ports 1-4, Pin 4	12		

See pages B75 - B82 for mating home-run cordsets.

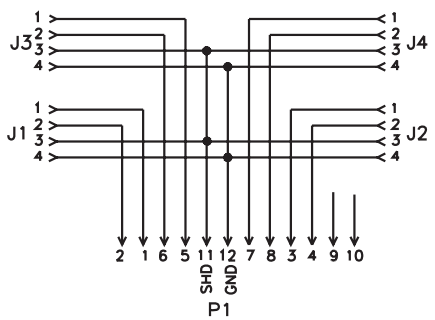
8-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
		Port, Pin	Home-Run	Port, Pin	Home-Run		
8-port glass-filled nylon junction box, ***eurofast*** port connectors, ***multifast*** home-run connector	19-pin ***multifast*** connector	Port 1, Pin 1	1	Port 5, Pin 1	10	P-8MB12-4-CS19	P-8MBV12-4-CSV19
		Port 1, Pin 2	2	Port 5, Pin 2	11		
		Port 2, Pin 1	3	Ports 1-8, Pin 4	12		
		Port 2, Pin 2	4	Port 6, Pin 1	13		
		Port 3, Pin 1	5	Port 6, Pin 2	14		
		Ports 1-8, Pin 3	6	Port 7, Pin 1	15		
		Port 3, Pin 2	7	Port 7, Pin 2	16		
		Port 4, Pin 1	8	Port 8, Pin 1	17		
		Port 4, Pin 2	9	Port 8, Pin 2	18		
				NC	19		

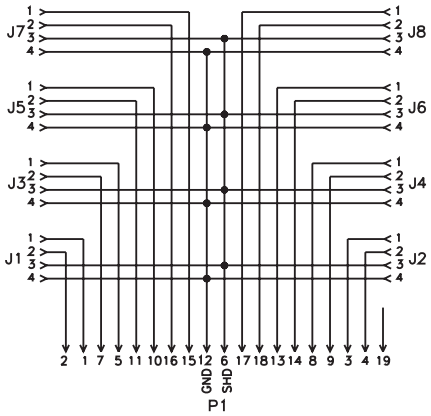
See pages B75 - B82 for mating home-run cordsets.

Wiring Diagrams

4-Port



8-Port

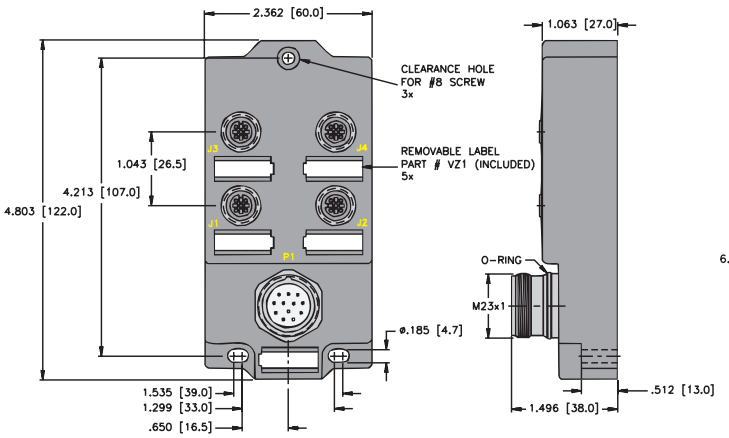


Specifications

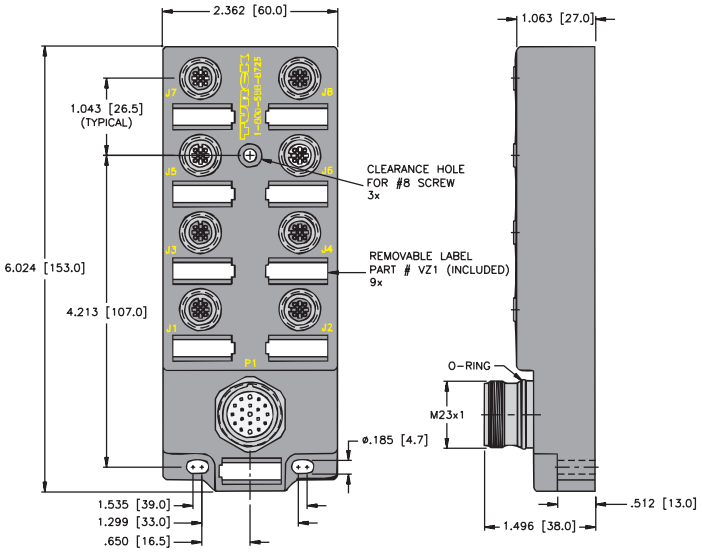
Housing:	Glass filled nylon.
Connectors	Nickel plated brass or 316 stainless steel housings (see table). Nylon contact carriers.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 67.
Electrical Rating:	100 V, 4 A per conductor.

Dimensions

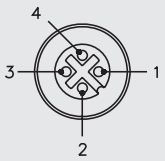
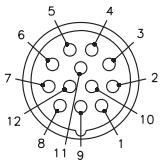
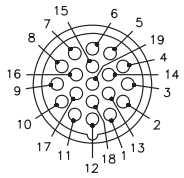
4-Port



8-Port



Pinouts

Female	Male	
		
4-Pin *eurofast*®	**12-Pin *multifast*®**	**19-Pin *multifast*®**

multibox® eurofast® Metal Junction Boxes

- **Consolidation of 2-wire Analog or HART Control Circuits in Hazardous Locations or Unclassified Locations**

FM APPROVED

FM approved for installation in hazardous locations when installed per **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) using specified accessory equipment.

4-port, Common Ground and Shield

Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
		Pin, Port	Home-Run	Port, Pin	Home-Run		
4-port cast aluminum junction box, ***eurofast*** port connectors, ***multifast*** ® home-run connector, 1 analog signal per port	12-pin ***multifast*** connector	Port 1, Pin 1	1	Port 4, Pin 1	7	P-VBM 40-CS12	P-VBMV 40-CSV12
		Port 1, Pin 2	2	Port 4, Pin 2	8		
		Port 2, Pin 1	3	NC	9		
		Port 2, Pin 2	4	NC	10		
		Port 3, Pin 1	5	Ports 1-4, Pin 3	11		
		Port 3, Pin 2	6	Ports 1-4, Pin 4	12		

See pages B75 - B82 for mating home-run cordsets.

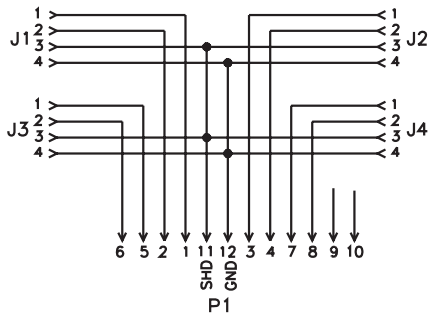
8-port, Common Ground and Shield

Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
		Port, Pin	Home-Run	Port, Pin	Home-Run		
8-port cast aluminum junction box, ***eurofast*** port connectors, ***multifast*** home-run connector, 1 analog signal per port	19-pin ***multifast*** connector	Port 1, Pin 1	1	Port 5, Pin 1	10	P-VBM 80-CS19	P-VBMV 80-CSV19
		Port 1, Pin 2	2	Port 5, Pin 2	11		
		Port 2, Pin 1	3	Ports 1-8, Pin 4	12		
		Port 2, Pin 2	4	Port 6, Pin 1	13		
		Port 3, Pin 1	5	Port 6, Pin 2	14		
		Ports 1-8, Pin 3	6	Port 7, Pin 1	15		
		Port 3, Pin 2	7	Port 7, Pin 2	16		
		Port 4, Pin 1	8	Port 8, Pin 1	17		
		Port 4, Pin 2	9	Port 8, Pin 2	18		
				NC	19		

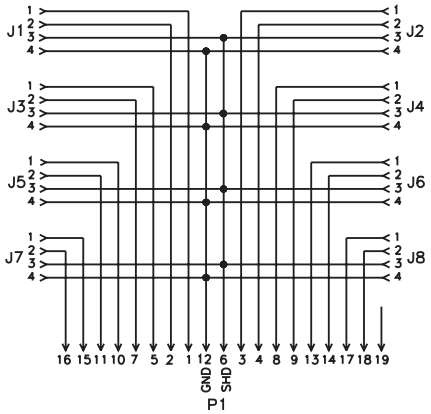
See pages B75 - B82 for mating home-run cordsets.

Wiring Diagrams

4-Port Diagram, 1 Analog Signal Per Port



8-Port Diagram, 1 Analog Signal Per Port

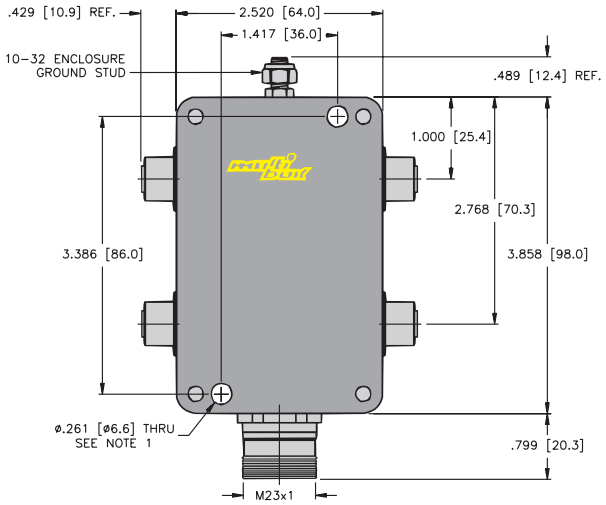


Specifications

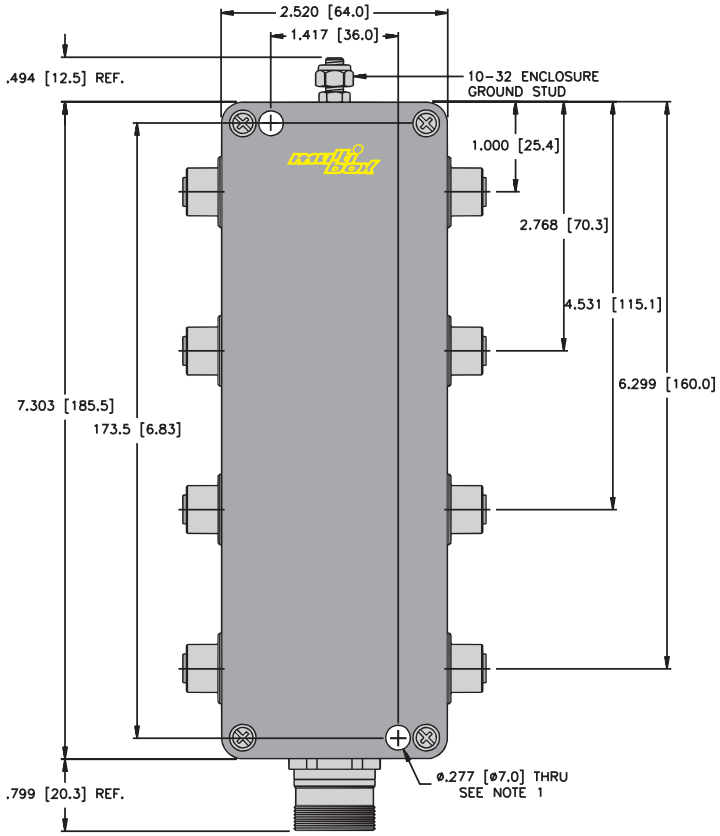
Housing:	Die-cast aluminum alloy.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), oil resistant PUR contact carrier.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 67.
Electrical Rating:	12-pin: 250 V, 4 A per conductor. 19-pin: 150 V, 4 A per conductor.

Dimensions

4-Port

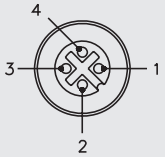
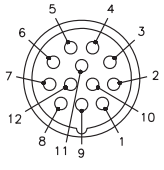
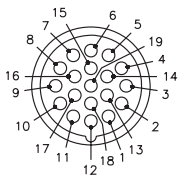


8-Port



Notes:
1. Clearance hole for 1/4-20 mounting screws (2 not included).

Pinouts

Female	Male	
		
4-Pin *eurofast*®	**12-Pin *multifast*®**	**19-Pin *multifast*®**

minifast® Cordset Part Number Key, 2-Wire Analog or HART Control Circuits

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

P - R S V R K V 40 - 949 - 2M

P = Process Cordset

minifast

R = Straight
W = Right Angle

Gender

K = Female Connector and Threads
S = Male Connector and Threads
Y = Male Connector, Female Threads

Coupling Nut Options

M = Nickel Plated Brass
V = 316 Stainless Steel

Insertion Point of Extension Cable and 2nd Prefix*

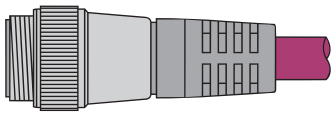
* Female Connector Listed 1st, Male Connector 2nd
Example: P-RSV RKV 40-949-2M

Length in Meters

Number of Wires / AWG / Color Codes / Cable Type

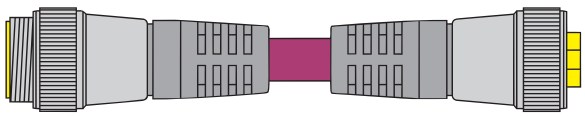
30-026 = 2x18 AWG, BU, BN, ITC/PLTC PVC
40-330 = 3x18 AWG, BU, BN, GN/YE, ITC-Exposed Run/Direct Burial/PLTC PVC
40-949 = 3x18 AWG, BU, BN, GN/YE, ITC/PLTC PVC
40-950 = 3x18 AWG, BU, BN, GN/YE, ITC/PLTC PVC
40-162 = 3x18 AWG, BU, BN, GN/YE, ITC-Exposed Run/Direct Burial/PLTC PVC
45-098 = 3x16 AWG, WH, BK, GN, ITC/PLTC PVC
45-327 = 3x16 AWG, WH, BK, GN, ITC/PLTC PVC
46-124 = 3x18 AWG, BK, RD, GN/YE, ITC/PLTC PVC
461-124 = 3x18 AWG, RD, BK, GN/YE, ITC/PLTC PVC
40A-947 = 3x18 AWG, BU, BN, GN/YE, ITC/PLTC Armor

Single Ended Example: P - R S V 40- 949 - 2M



RSV ..

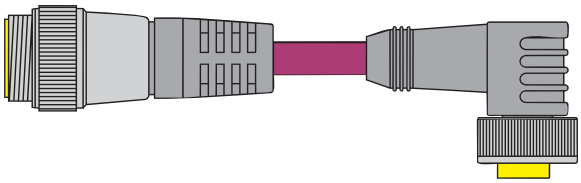
Extension Example: P - R S V R K V 40- 949 - 2M



RSV .. - RKV ..

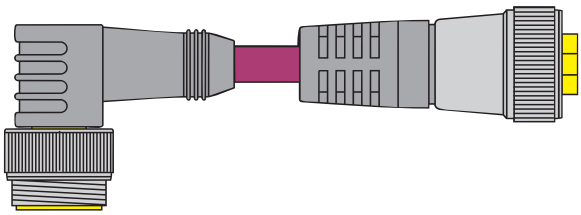
minifast® Cordset Extensions

Other Extension Examples:



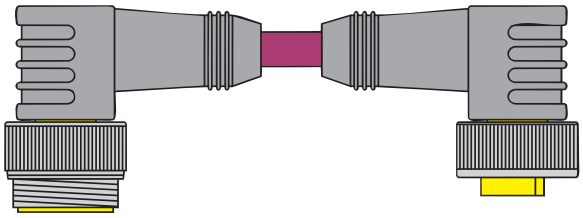
P - R S V | W K V | 40- 949 - 2M

RSV .. - WKV ..



P - W S V | R K V | 40- 949 - 2M

WSV .. - RKV ..



P - W S V | W K V | 40- 949 - 2M

WSV .. - WKV ..

Note: Hybrid connector extensions also available. Consult factory.

minifast® Receptacle with Cable Part Number Key, 2-Wire Analog or HART Control Circuits

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

P - R K F [ ] V 40 - 949 - 2 - /14.5/NPT

P = Process Receptacle

Designator for Receptacle

Gender

K = Female Connector
S = Male Connector
X = Female Connector, Male Threads

Housing Style

(Blank) = Front Mount
P = Back Panel Mount

Housing Material

(Blank) = Nickel Plated Brass
V = 316 Stainless Steel

Thread Type

/14.5/NPT = 1/2-14NPT Threads
/14.75/NPT = 3/4-14NPT Threads
/M20 = M20x1.5 Threads

Length in Meters

Number of Wires / AWG / Color Codes / Cable Type

30-026 = 2x18 AWG, BU, BN, ITC/PLTC PVC
40-949 = 3x18 AWG, BU, BN, GN/YE, ITC/PLTC PVC
40-162 = 3x18 AWG, BU, BN, GN/YE, ITC-Exposed Run/Direct Burial/PLTC PVC
45-098 = 3x16 AWG, WH, BK, GN, ITC/PLTC PVC
46-124 = 3x18 AWG, BK, RD, GN/YE, ITC/PLTC PVC
461-124 = 3x18 AWG, RD, BK, GN/YE, ITC/PLTC PVC
40-330 = 3x18 AWG, BU, BN, GN/YE, ITC-Exposed Run/Direct Burial/ PLTC PVC
40-950 = 3x18 AWG, BU, BN, GN/YE, ITC/PLTC PVC

minifast® Receptacle with Leads Part Number Key, 2-Wire Analog or HART Control Circuits

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

P - R K F [ ] V 40 - 0.5 - /14.5/NPT

P = Process Receptacle

Designator for Receptacle

Gender

K = Female Connector
S = Male Connector
X = Female Connector, Male Threads

Housing Style

(Blank) = Front Mount
P = Back Panel Mount

Housing Material

(Blank) = Nickel Plated Brass
V = 316 Stainless Steel

Number of Wires

30 = 2
30D = 3 including drain
321 = 3
40 = 3
40D = 4 including drain

Length in Meters

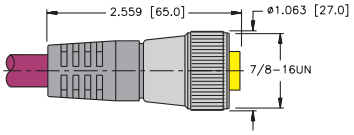
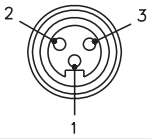
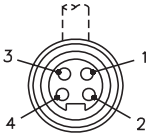
Thread Type

(Blank) = 1/2-14NPSM
/14.5/NPT = 1/2-14NPT Threads
/14.75/NPT = 3/4-14NPT Threads
/M20 = M20x1.5 Threads

minifast® Drop Cordsets, 2-Wire Analog or HART Control Circuits

- **Straight Female Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinout	
P-RKM .. 	P-RKM 30-026-*M	**ITC/PLTC PVC Plum 2x18 AWG, 1 STP Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51026-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. Drain	
	P-RKM 40-949-*M	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**		1. BU 2. BN 3. Drain 4. GN/YE	
	P-RKM 40-162-*M	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-RKM 45-098-*M	**ITC/PLTC PVC Plum 3x16 AWG, 1 STP with GND Foil/Drain (18) 105°C 7.6 mm OD Cable #RF51098-*M†**		1. WH 2. BK 3. Drain 4. GN	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RKM.."; "P-RKV.." indicates 316 stainless steel.

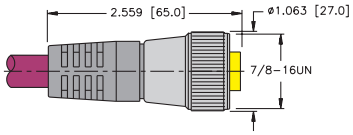
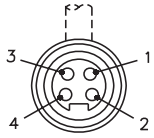
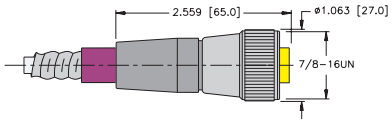
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Drop Cordsets, 2-Wire Analog or HART Control Circuits

- **Straight Female Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinout	
P-RKM.. 	P-RKM 40-950-*M	**ITC/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50950-*M†**	***Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-RKM 40-330-*M	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**			
	P-RKM 45-327-*M	**ITC/PLTC PVC Blue 3x16 AWG, 1 STP with GND Foil/Drain (18) 105°C 7.6 mm OD Cable #RF51327-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. WH 2. BK 3. Drain 4. GN	
	P-RKM 46-124-*M	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-RKM 461-124-*M			1. RD 2. BK 3. Drain 4. GN/YE	
P-RKM.. 	P-RKM 40A-947-*M	**ITC/PLTC Armor Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 13.5 mm OD Cable #RF50947-*M†**		1. BU 2. BN 3. Drain 4. GN/YE	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RKM.."; "P-RKV.." indicates 316 stainless steel.

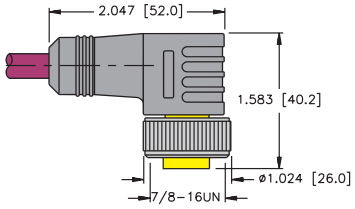
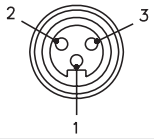
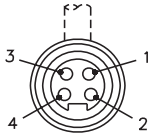
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Drop Cordsets, 2-Wire Analog or HART Control Circuits

- **Right Angle Female Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A (use as ITC limited to 150 V, 5 A)**

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinout	
P-WKM .. 	P-WKM 30-026-*M	**ITC/PLTC PVC Plum 2x18 AWG, 1 STP Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51026-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. Drain	
	P-WKM 40-949-*M	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**		1. BU 2. BN 3. Drain 4. GN/YE	
	P-WKM 40-162-*M	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-WKM 45-098-*M	**ITC/PLTC PVC Plum 3x16 AWG, 1 STP with GND Foil/Drain (18) 105°C 7.6 mm OD Cable #RF51098-*M†**		1. WH 2. BK 3. Drain 4. GN	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths. Standard coupling nut material is nickel plated brass "P-WKM.."; "P-WKV.." indicates 316 stainless steel.

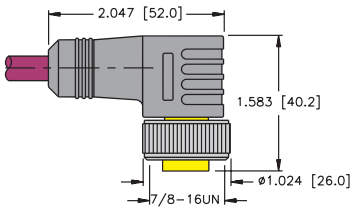
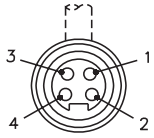
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI-ANGLE) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Drop Cordsets, 2-Wire Analog or HART Control Circuits

- **Right Angle Female Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinout	
P-WKM.. 	P-WKM 40-950-*M	**ITC/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50950-*M†**	***Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-WKM 40-330-*M	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-WKM 45-327-*M	**ITC/PLTC PVC Blue 3x16 AWG, 1 STP with GND Foil/Drain (18) 105°C 7.6 mm OD Cable #RF51327-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. WH 2. BK 3. Drain 4. GN	
	P-WKM 46-124-*M	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-WKM 461-124-*M			1. RD 2. BK 3. Drain 4. GN/YE	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-WKM.."; "P-WKV.." indicates 316 stainless steel.

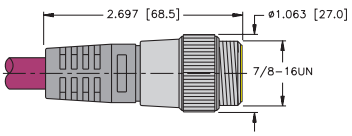
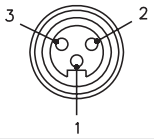
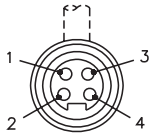
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI-ANGLE) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Drop Cordsets, 2-Wire Analog or HART Control Circuits

- **Straight Male Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A (use as ITC limited to 150 V, 5 A)**

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinout	
P-RSM .. 	P-RSM 30-026-*M	**ITC/PLTC PVC Plum 2x18 AWG, 1 STP Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51026-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. Drain	
	P-RSM 40-949-*M	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**		1. BU 2. BN 3. Drain 4. GN/YE	
	P-RSM 40-162-*M	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-RSM 45-098-*M	**ITC/PLTC PVC Plum 3x16 AWG, 1 STP with GND Foil/Drain (18) 105°C 7.6 mm OD Cable #RF51098-*M†**		1. WH 2. BK 3. Drain 4. GN	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RSM.."; "P-RSV.." indicates 316 stainless steel.

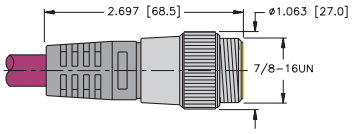
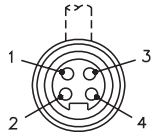
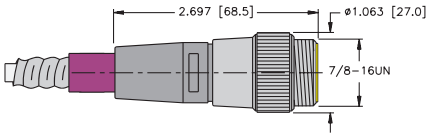
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Drop Cordsets, 2-Wire Analog or HART Control Circuits

- **Straight Male Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinout	
P-RSM.. 	P-RSM 40-330-*M	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**	***Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-RSM 40-950-*M	**ITC/PLTC PVC Blue 3x18 AWG 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50950-*M†**			
	P-RSM 45-327-*M	**ITC/PLTC PVC Blue 3x16 AWG, 1 STP with GND Foil/Drain (18) 105°C 7.6 mm OD Cable #RF51327-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.*	1. WH 2. BK 3. Drain 4. GN	
	P-RSM 46-124-*M	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-RSM 461-124-*M			1. RD 2. BK 3. Drain 4. GN/YE	
P-RSM.. 	P-RSM 40A-947-*M	**ITC/PLTC Armor Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 13.5 mm OD Cable #RF50947-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.*	1. BU 2. BN 3. Drain 4. GN/YE	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RSM.."; "P-RSV.." indicates 316 stainless steel.

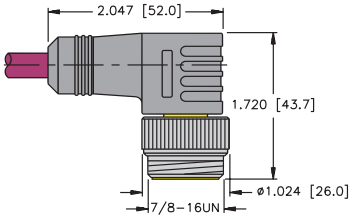
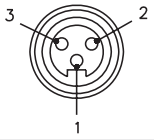
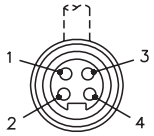
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Drop Cordsets, 2-Wire Analog or HART Control Circuits

- **Right Angle Male Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A (use as ITC limited to 150 V, 5 A)**

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinout	
P-WSM .. 	P-WSM 30-026-*M	**ITC/PLTC PVC Plum 2x18 AWG, 1 STP Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51026-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BN 2. BU 3. Drain	
	P-WSM 40-949-*M	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**		1. BU 2. BN 3. Drain 4. GN/YE	
	P-WSM 40-162-*M	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-WSM 45-098-*M	**ITC/PLTC PVC Plum 3x16 AWG, 1 STP with GND Foil/Drain (18) 105°C 7.6 mm OD Cable #RF51098-*M†**		1. WH 2. BK 3. Drain 4. GN	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths. Standard coupling nut material is nickel plated brass "P-WSM.."; "P-WSV.." indicates 316 stainless steel.

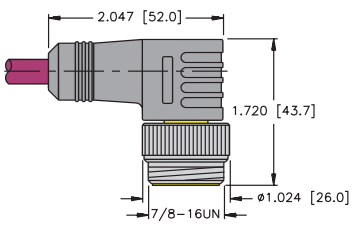
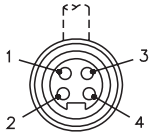
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI-ANGLE) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Drop Cordsets, 2-Wire Analog or HART Control Circuits

- **Right Angle Male Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinout	
P-WSM..  	P-WSM 40-330-*M	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**	***Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations.***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-WSM 40-950-*M	**ITC/PLTC PVC Blue 3x18 AWG 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50950-*M†**			
	P-WSM 45-327-*M	**ITC/PLTC PVC Blue 3x16 AWG, 1 STP with GND Foil/Drain (18) 105°C 7.6 mm OD Cable #RF51327-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. WH 2. BK 3. Drain 4. GN	
	P-WSM 46-124-*M	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-WSM 461-124-*M			1. RD 2. BK 3. Drain 4. GN/YE	

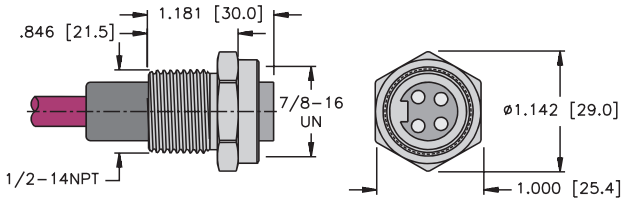
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-WSM.."; "P-WSV.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI-ANGLE) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

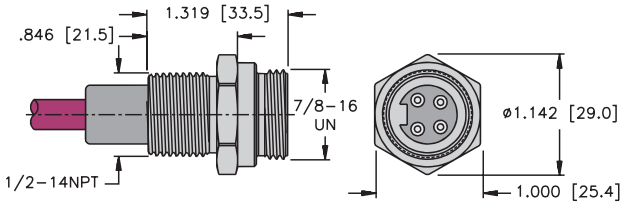
minifast® Receptacles with Cable, 2-Wire Analog or HART Control Circuits

1



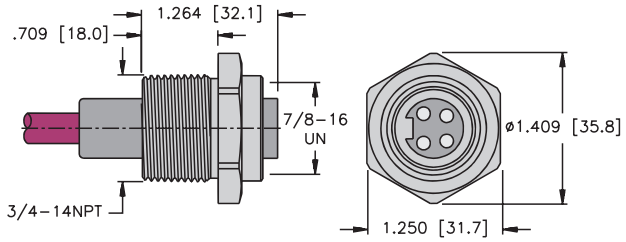
P-RKF .. 14.5/NPT **Page B46**

2



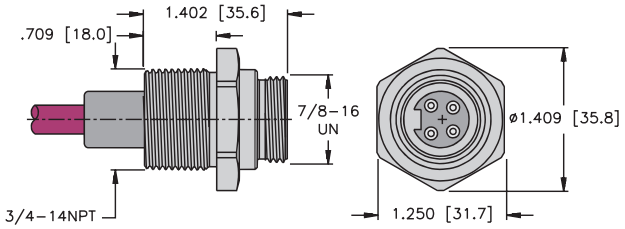
P-RSF .. 14.5/NPT **Page B47**

3



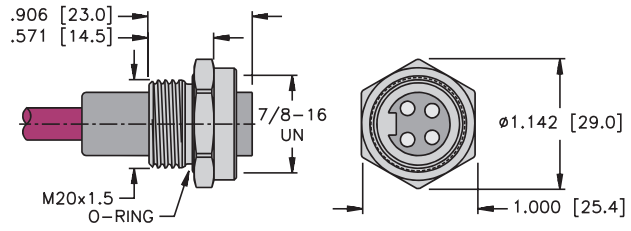
P-RKF .. 14.75/NPT **Page B48**

4



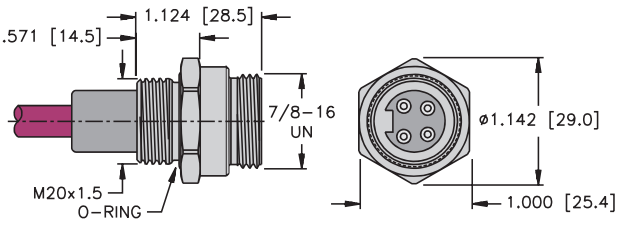
P-RSF .. 14.75/NPT **Page B49**

5



P-RKF .. M20 **Page B50**

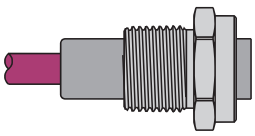
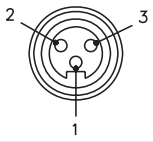
6



P-RSF .. M20 **Page B51**

minifast® Receptacles with Cable, 2-Wire Analog or HART Control Circuits

- **Female Receptacles**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

Housing Style	Part Number	Cable	Application	Pinout	
1 	P-RKF 30-026-*/14.5/NPT	**ITC/PLTC PVC Plum 2x18 AWG, 1 STP Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51026-*M†**	*Analog or HART control circuits in Class I, Division 2 hazardous locations or unclassified locations. 1/2-14NPT Conduit Entry Thread.*	1. BU 2. BN 3. Drain	
	P-RKF 40-949-*/14.5/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**		1. BU 2. BN 3. Drain 4. GN/YE	
	P-RKF 40-162-*/14.5/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-RKF 45-098-*/14.5/NPT	**ITC/PLTC PVC Plum 3x16 AWG, 1 STP with GND Foil/Drain (18) 105°C 7.6 mm OD Cable #RF51098-*M†**		1. WH 2. BK 3. Drain 4. GN	
	P-RKF 46-124-*/14.5/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-RKF 461-124-*/14.5/NPT			1. RD 2. BK 3. Drain 4. GN/YE	
	P-RKF 40-950-*/14.5/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**	*Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations. 1/2-14NPT Conduit Entry Thread.*	1. BU 2. BN 3. Drain 4. GN/YE	
	P-RKF 40-330-*/14.5/NPT	**ITC/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50950-*M†**			

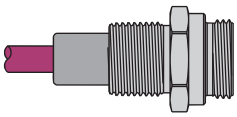
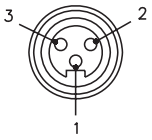
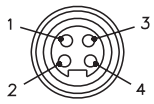
See page B45 for dimensional drawings.

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Cable, 2-Wire Analog or HART Control Circuits

- **Male Receptacles**
- **IEC IP 67 Protection**
- **300 V, 9 A (use as ITC limited to 150 V, 5 A)**

Housing Style	Part Number	Cable	Application	Pinout	
2 	P-RSF 30-026-*/14.5/NPT	**ITC/PLTC PVC Plum 2x18 AWG, 1 STP Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51026-*M†**	*Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations. 1/2-14NPT Conduit Entry Thread.*	1. BU 2. BN 3. Drain	
	P-RSF 40-949-*/14.5/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**		1. BU 2. BN 3. Drain 4. GN/YE	
	P-RSF 40-162-*/14.5/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-RSF 45-098-*/14.5/NPT	**ITC/PLTC PVC Plum 3x16 AWG, 1 STP with GND Foil/Drain (18) 105°C 7.6 mm OD Cable #RF51098-*M†**		1. WH 2. BK 3. Drain 4. GN	
	P-RSF 46-124-*/14.5/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-RSF 461-124-*/14.5/NPT			1. RD 2. BK 3. Drain 4. GN/YE	
	P-RSF 40-330-*/14.5/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**	*Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations. 1/2-14NPT Conduit Entry Thread.*	1. BU 2. BN 3. Drain 4. GN/YE	
	P-RSF 40-950-*/14.5/NPT	**ITC/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50950-*M†**			

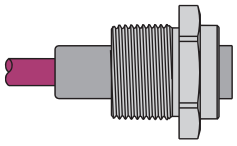
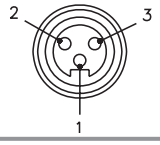
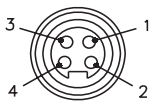
See page B45 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Cable, 2-Wire Analog or HART Control Circuits

- **Female Receptacles**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

Housing Style	Part Number	Cable	Application	Pinout	
3 	P-RKF 30-026-*/14.75/NPT	**ITC/PLTC PVC Plum 2x18 AWG, 1 STP Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51026-*M†**	*Analog or HART control circuits in Class I, Division 2 hazardous locations or unclassified locations. 3/4-14NPT Conduit Entry Thread.*	1. BU 2. BN 3. Drain	
	P-RKF 40-949-*/14.75/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**		1. BU 2. BN 3. Drain 4. GN/YE	
	P-RKF 40-162-*/14.75/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-RKF 45-098-*/14.75/NPT	**ITC/PLTC PVC Plum 3x16 AWG, 1 STP with GND Foil/Drain (18) 105°C 7.6 mm OD Cable #RF51098-*M†**		1. WH 2. BK 3. Drain 4. GN	
	P-RKF 46-124-*/14.75/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-RKF 461-124-*/14.75/NPT			1. RD 2. BK 3. Drain 4. GN/YE	
	P-RKF 40-330-*/14.75/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**	*Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations. 3/4-14NPT Conduit Entry Thread.*	1. BU 2. BN 3. Drain 4. GN/YE	
	P-RKF 40-950-*/14.75/NPT	**ITC/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50950-*M†**			

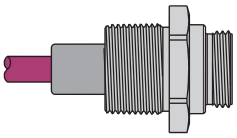
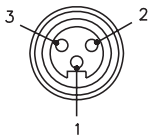
See page B45 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 1-1/16" (27.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Cable, 2-Wire Analog or HART Control Circuits

- **Male Receptacles**
- **IEC IP 67 Protection**
- **300 V, 9 A (use as ITC limited to 150 V, 5 A)**

Housing Style	Part Number	Cable	Application	Pinout	
4 	P-RSF 30-026-*/14.75/NPT	**ITC/PLTC PVC Plum 2x18 AWG, 1 STP Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51026-*M†**	*Analog or HART control circuits in Class I, Division 2 hazardous locations or unclassified locations. 3/4-14NPT Conduit Entry Thread.*	1. BU 2. BN 3. Drain	
	P-RSF 40-949-*/14.75/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**		1. BU 2. BN 3. Drain 4. GN/YE	
	P-RSF 40-162-*/14.75/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-RSF 45-098-*/14.75/NPT	**ITC/PLTC PVC Plum 3x16 AWG, 1 STP with GND Foil/Drain (18) 105°C 7.6 mm OD Cable #RF51098-*M†**		1. WH 2. BK 3. Drain 4. GN	
	P-RSF 46-124-*/14.75/NPT	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-RSF 461-124-*/14.75/NPT			1. RD 2. BK 3. Drain 4. GN/YE	
	P-RSF 40-330-*/14.75/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**	*Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations. 3/4-14NPT Conduit Entry Thread.*	1. BU 2. BN 3. Drain 4. GN/YE	
	P-RSF 40-950-*/14.75/NPT	**ITC/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50950-*M†**			

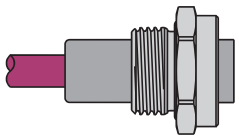
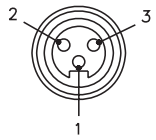
See page B45 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 1-1/16" (27.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Cable, 2-Wire Analog or HART Control Circuits

- **Female Receptacles**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

Housing Style	Part Number	Cable	Application	Pinout	
5 	P-RKF 30-026-*/M20	**ITC/PLTC PVC Plum 2x18 AWG, 1 STP Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51026-*M†**	*Analog or HART control circuits in Class I, Division 2 hazardous locations or unclassified locations. M20 Conduit Entry Thread.*	1. BU 2. BN 3. Drain	
	P-RKF 40-949-*/M20	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**		1. BU 2. BN 3. Drain 4. GN/YE	
	P-RKF 40-162-*/M20	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-RKF 45-098-*/M20	**ITC/PLTC PVC Plum 3x16 AWG, 1 STP with GND Foil/Drain (18) 105°C 7.6 mm OD Cable #RF51098-*M†**		1. WH 2. BK 3. Drain 4. GN	
	P-RKF 46-124-*/M20	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-RKF 461-124-*/M20	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. RD 2. BK 3. Drain 4. GN/YE	
	P-RKF 40-330-*/M20	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**	*Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations. M20 Conduit Entry Thread.*	1. BU 2. BN 3. Drain 4. GN/YE	
	P-RKF 40-950-*/M20	**ITC/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50950-*M†**			

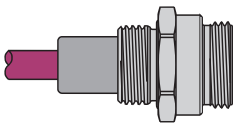
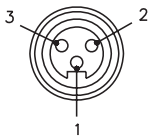
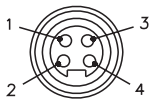
See page B45 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Cable, 2-Wire Analog or HART Control Circuits

- **Male Receptacles**
- **IEC IP 67 Protection**
- **300 V, 9 A (use as ITC limited to 150 V, 5 A)**

Housing Style	Part Number	Cable	Application	Pinout	
6 	P-RSF 30-026-*/M20	**ITC/PLTC PVC Plum 2x18 AWG, 1 STP Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51026-*M†**	*Analog or HART control circuits in Class I, Division 2 hazardous locations or unclassified locations. M20 Conduit Entry Thread.*	1. BU 2. BN 3. Drain	
	P-RSF 40-949-*/M20	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50949-*M†**		1. BU 2. BN 3. Drain 4. GN/YE	
	P-RSF 40-162-*/M20	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51162-*M†**			
	P-RSF 45-098-*/M20	**ITC/PLTC PVC Plum 3x16 AWG, 1 STP with GND Foil/Drain (18) 105°C 7.6 mm OD Cable #RF51098-*M†**		1. WH 2. BK 3. Drain 4. GN	
	P-RSF 46-124-*/M20	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. BK 2. RD 3. Drain 4. GN/YE	
	P-RSF 461-124-*/M20	**ITC/PLTC PVC Plum 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51124-*M†**		1. RD 2. BK 3. Drain 4. GN/YE	
	P-RSF 40-330-*/M20	**ITC-Exposed Run/Direct Burial/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF51330-*M†**	*Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations. M20 Conduit Entry Thread.*	1. BU 2. BN 3. Drain 4. GN/YE	
	P-RSF 40-950-*/M20	**ITC/PLTC PVC Blue 3x18 AWG, 1 STP with GND Foil/Drain (20) 105°C 7.2 mm OD Cable #RF50950-*M†**			

See page B45 for dimensional drawings.

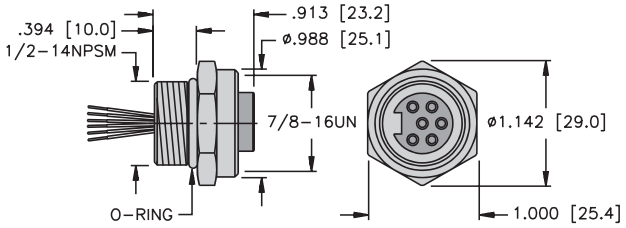
* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

Notes:

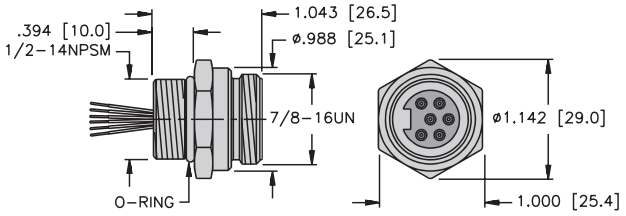
minifast® Receptacles with Leads, 2-Wire Analog or HART Control Circuits

1



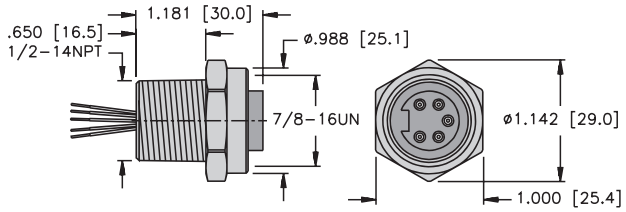
P-RKF .. **Page B55**

2



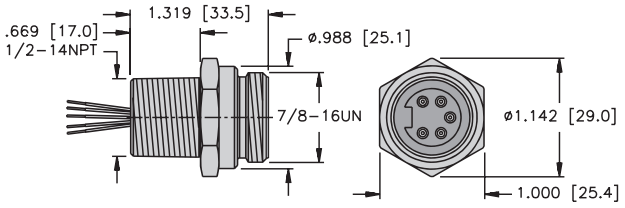
P-RSF .. **Page B56**

3



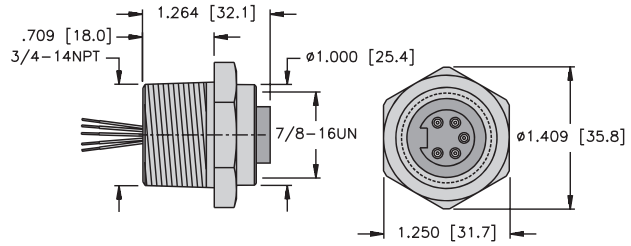
P-RKF .. 14.5/NPT **Page B57**

4



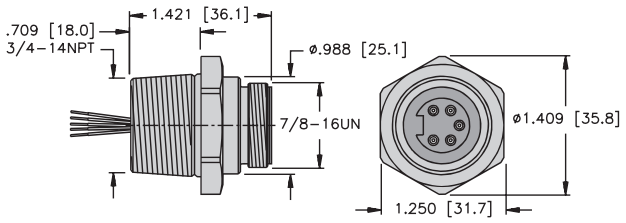
P-RSF .. 14.5/NPT **Page B58**

5



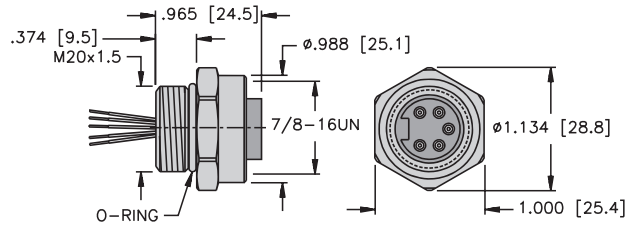
P-RKF .. 14.75/NPT **Page B59**

6



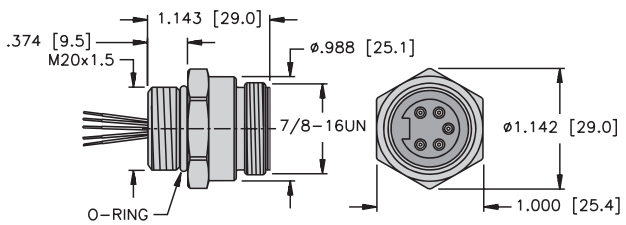
P-RSF .. 14.75/NPT **Page B60**

7



P-RKF .. M20 **Page B61**

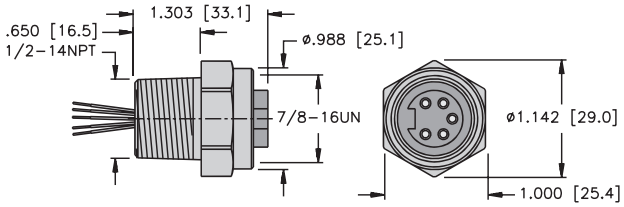
8



P-RSF .. M20 **Page B62**

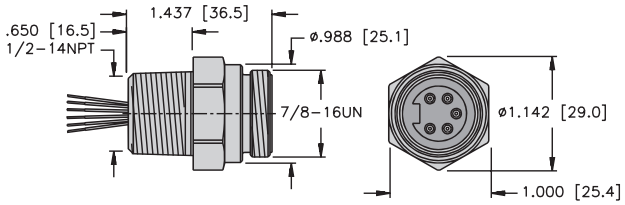
minifast® Explosion Proof Receptacles with Leads, 2-Wire Analog or HART Control Circuits

9



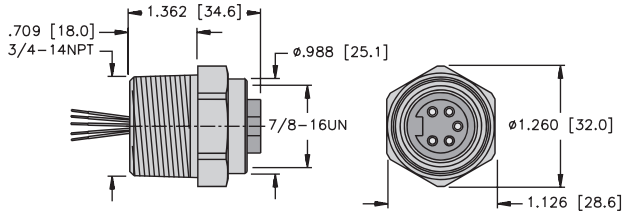
P-RKFV .. EX-*/14.5/NPT **Page B63**

10



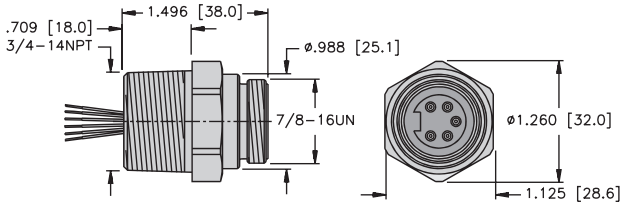
P-RSFV .. EX-*/14.5/NPT **Page B64**

11



P-RKFV .. EX-*/14.75/NPT **Page B65**

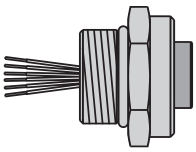
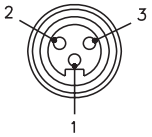
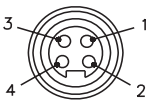
12



P-RSFV .. EX-*/14.75/NPT **Page B66**

minifast® Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

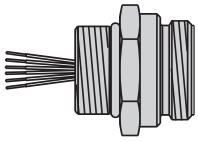
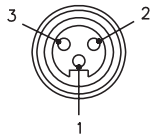
Housing Style	Part Number	Lead Specs	Features	Pinout	
1 	P-RKF 30-*	**UL, CSA** **2x18 AWG** **105°C** **600 V, 9A**	***1/2-14NPSM***	1. BU 2. BN 3. N/C	
	P-RKF 30D-*	**UL, CSA** **3x18 AWG** **105°C** **600 V, 9A**	***1/2-14NPSM Threads, Drain Wire***	1. BU 2. BN 3. GY	
	P-RKF 321-*		***1/2-14NPSM Threads***	1. GN/YE 2. BN 3. BU	
	P-RKF 40-*	**UL, CSA** **3x18 AWG** **105°C** **600 V, 9A**	***1/2-14NPSM Threads***	1. BU 2. BN 3. N/C 4. GN/YE	
	P-RKF 40D-*	**UL, CSA** **4x18 AWG** **105°C** **600 V, 9A**	***1/2-14NPSM Threads, Drain Wire***	1. BU 2. BN 3. GY 4. GN/YE	

See page B53 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

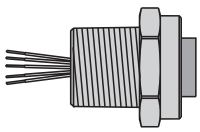
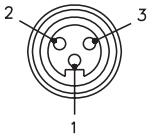
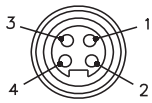
Housing Style	Part Number	Lead Specs	Features	Pinout	
2 	P-RSF 30-*	UL, CSA 2x18 AWG 105°C 600 V, 9A	*1/2-14NPSM*	1. BU 2. BN 3. N/C	
	P-RSF 30D-*	UL, CSA 3x18 AWG 105°C 600 V, 9A	*1/2-14NPSM Threads, Drain Wire*	1. BU 2. BN 3. GY	
	P-RSF 321-*		*1/2-14NPSM Threads*	1. GN/YE 2. BN 3. BU	
	P-RSF 40-*	UL, CSA 3x18 AWG 105°C 600 V, 9A	*1/2-14NPSM Threads*	1. BU 2. BN 3. N/C 4. GN/YE	
	P-RSF 40D-*	UL, CSA 4x18 AWG 105°C 600 V, 9A	*1/2-14NPSM Threads, Drain Wire*	1. BU 2. BN 3. GY 4. GN/YE	

See page B53 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

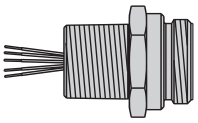
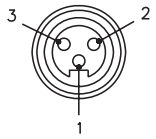
Housing Style	Part Number	Lead Specs	Features	Pinout	
3 	P-RKF 30-*/14.5/NPT	UL, CSA 2x18 AWG 105°C 600 V, 9A	*1/2-14NPT Threads*	1. BU 2. BN 3. N/C	
	P-RKF 30D-*/14.5/NPT	UL, CSA 3x18 AWG 105°C 600 V, 9A	*1/2-14NPT Threads, Drain Wire*	1. BU 2. BN 3. GY	
	P-RKF 321-*/14.5/NPT		*1/2-14NPT Threads*	1. GN/YE 2. BN 3. BU	
	P-RKF 40-*/14.5/NPT	UL, CSA 3x18 AWG 105°C 600 V, 9A	*1/2-14NPT Threads*	1. BU 2. BN 3. N/C 4. GN/YE	
	P-RKF 40D-*/14.5/NPT	UL, CSA 4x18 AWG 105°C 600 V, 9A	*1/2-14NPT Threads, Drain Wire*	1. BU 2. BN 3. GY 4. GN/YE	

See page B53 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

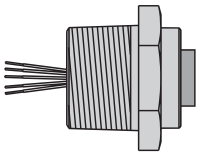
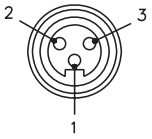
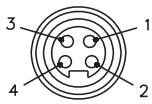
Housing Style	Part Number	Lead Specs	Features	Pinout	
4 	P-RSF 30-*/14.5/NPT	UL, CSA 2x18 AWG 105°C 600 V, 9A	*1/2-14NPT Threads*	1. BU 2. BN 3. N/C	
	P-RSF 30D-*/14.5/NPT	UL, CSA 3x18 AWG 105°C 600 V, 9A	*1/2-14NPT Threads, Drain Wire*	1. BU 2. BN 3. GY	
	P-RSF 321-*/14.5/NPT		*1/2-14NPT Threads*	1. GN/YE 2. BN 3. BU	
	P-RSF 40-*/14.5/NPT	UL, CSA 3x18 AWG 105°C 600 V, 9A	*1/2-14NPT Threads*	1. BU 2. BN 3. N/C 4. GN/YE	
	P-RSF 40D-*/14.5/NPT	UL, CSA 4x18 AWG 105°C 600 V, 9A	*1/2-14NPT Threads, Drain Wire*	1. BU 2. BN 3. GY 4. GN/YE	

See page B53 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

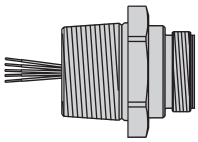
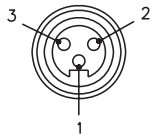
Housing Style	Part Number	Lead Specs	Features	Pinout	
5 	P-RKF 30-*/14.75/NPT	**UL, CSA 2x18 AWG 105°C 600 V, 9A**	***3/4-14NPT Threads***	1. BU 2. BN 3. N/C	
	P-RKF 30D-*/14.75/NPT	**UL, CSA 3x18 AWG 105°C 600 V, 9A**	***3/4-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GY	
	P-RKF 321-*/14.75/NPT		***3/4-14NPT Threads***	1. GN/YE 2. BN 3. BU	
	P-RKF 40-*/14.75/NPT	**UL, CSA 3x18 AWG 105°C 600 V, 9A**	***3/4-14NPT Threads***	1. BU 2. BN 3. N/C 4. GN/YE	
	P-RKF 40D-*/14.75/NPT	**UL, CSA 4x18 AWG 105°C 600 V, 9A**	***3/4-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GY 4. GN/YE	

See page B53 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 1-1/16" (27.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

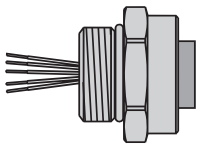
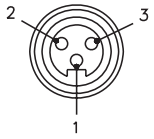
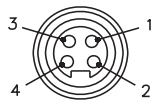
Housing Style	Part Number	Lead Specs	Features	Pinout	
6 	P-RSF 30-*/14.75/NPT	UL, CSA 2x18 AWG 105°C 600 V, 9A	*3/4-14NPT Threads*	1. BU 2. BN 3. N/C	
	P-RSF 30D-*/14.75/NPT	UL, CSA 3x18 AWG 105°C 600 V, 9A	*3/4-14NPT Threads, Drain Wire*	1. BU 2. BN 3. GY	
	P-RSF 321-*/14.75/NPT		*3/4-14NPT Threads*	1. GN/YE 2. BN 3. BU	
	P-RSF 40-*/14.75/NPT	UL, CSA 3x18 AWG 105°C 600 V, 9A	*3/4-14NPT Threads*	1. BU 2. BN 3. N/C 4. GN/YE	
	P-RSF 40D-*/14.75/NPT	UL, CSA 4x18 AWG 105°C 600 V, 9A	*3/4-14NPT Threads, Drain Wire*	1. BU 2. BN 3. GY 4. GN/YE	

See page B53 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 1-1/16" (27.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

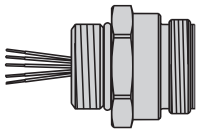
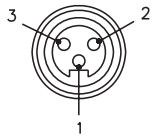
Housing Style	Part Number	Lead Specs	Features	Pinout	
7 	P-RKF 30-*/M20	**UL, CSA** **2x18 AWG** **105°C** **600 V, 9A**	***M20 Threads***	1. BU 2. BN 3. N/C	
	P-RKF 30D-*/M20	**UL, CSA** **3x18 AWG** **105°C** **600 V, 9A**	***M20 Threads, Drain Wire***	1. BU 2. BN 3. GY	
	P-RKF 321-*/M20		***M20 Threads***	1. GN/YE 2. BN 3. BU	
	P-RKF 40-*/M20	**UL, CSA** **3x18 AWG** **105°C** **600 V, 9A**	***M20 Threads***	1. BU 2. BN 3. N/C 4. GN/YE	
	P-RKF 40D-*/M20	**UL, CSA** **4x18 AWG** **105°C** **600 V, 9A**	***M20 Threads, Drain Wire***	1. BU 2. BN 3. GY 4. GN/YE	

See page B53 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

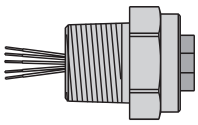
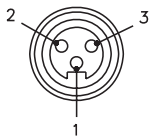
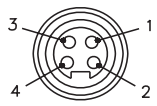
Housing Style	Part Number	Lead Specs	Features	Pinout	
8 	P-RSF 30-*/M20	UL, CSA 2x18 AWG 105°C 600 V, 9A	*M20 Threads*	1. BU 2. BN 3. N/C	
	P-RSF 30D-*/M20	UL, CSA 3x18 AWG 105°C 600 V, 9A	*M20 Threads, Drain Wire*	1. BU 2. BN 3. GY	
	P-RSF 321-*/M20		*M20 Threads*	1. GN/YE 2. BN 3. BU	
	P-RSF 40-*/M20	UL, CSA 3x18 AWG 105°C 600 V, 9A	*M20 Threads*	1. BU 2. BN 3. N/C 4. GN/YE	
	P-RSF 40D-*/M20	UL, CSA 4x18 AWG 105°C 600 V, 9A	*M20 Threads, Drain Wire*	1. BU 2. BN 3. GY 4. GN/YE	

See page B53 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Explosion Proof Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

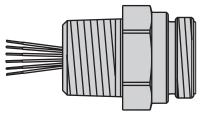
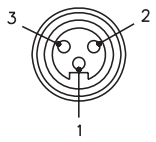
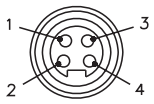
Housing Style	Part Number	Lead Specs	Features	Pinout	
9 	P-RKFV 30 EX-*/14.5/NPT	**UL, CSA 2x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads***	1. BU 2. BN 3. N/C	
	P-RKFV 30D EX-*/14.5/NPT	**UL, CSA 3x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GY	
	P-RKFV 40 EX-*/14.5/NPT	**UL, CSA 3x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads***	1. BU 2. BN 3. N/C 4. GN/YE	
	P-RKFV 40D EX-*/14.5/NPT	**UL, CSA 4x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GY 4. GN/YE	

See page B54 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Explosion Proof Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

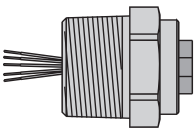
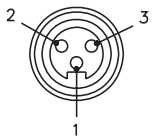
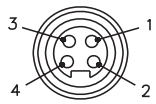
Housing Style	Part Number	Lead Specs	Features	Pinout	
10 	P-RSFV 30 EX-*/14.5/NPT	**UL, CSA 2x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads***	1. BU 2. BN 3. N/C	
	P-RSFV 30D EX-*/14.5/NPT	**UL, CSA 3x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GY	
	P-RSFV 40 EX-*/14.5/NPT	**UL, CSA 3x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads***	1. BU 2. BN 3. N/C 4. GN/YE	
	P-RSFV 40D EX-*/14.5/NPT	**UL, CSA 4x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GY 4. GN/YE	

See page B54 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Explosion Proof Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

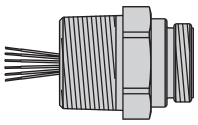
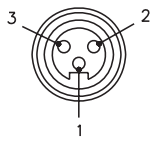
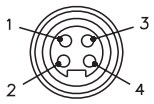
Housing Style	Part Number	Lead Specs	Features	Pinout	
11 	P-RKFV 30 EX-*/14.75/NPT	UL, CSA 2x18 AWG 105°C 600 V, 9 A	*Explosion Proof Receptacle, 3/4-14NPT Threads*	1. BU 2. BN 3. N/C	
	P-RKFV 30D EX-*/14.75/NPT	UL, CSA 3x18 AWG 105°C 600 V, 9 A	*Explosion Proof Receptacle, 3/4-14NPT Threads, Drain Wire*	1. BU 2. BN 3. GY	
	P-RKFV 40 EX-*/14.75/NPT	UL, CSA 3x18 AWG 105°C 600 V, 9 A	*Explosion Proof Receptacle, 3/4-14NPT Threads*	1. BU 2. BN 3. N/C 4. GN/YE	
	P-RKFV 40D EX-*/14.75/NPT	UL, CSA 4x18 AWG 105°C 600 V, 9 A	*Explosion Proof Receptacle, 3/4-14NPT Threads, Drain Wire*	1. BU 2. BN 3. GY 4. GN/YE	

See page B54 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Explosion Proof Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

Housing Style	Part Number	Lead Specs	Features	Pinout	
12 	P-RSFV 30 EX-*/14.75/NPT	**UL, CSA 2x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 3/4-14NPT Threads***	1. BU 2. BN 3. N/C	
	P-RSFV 30D EX-*/14.75/NPT	**UL, CSA 3x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 3/4-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GY	
	P-RSFV 40 EX-*/14.75/NPT	**UL, CSA 3x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 3/4-14NPT Threads***	1. BU 2. BN 3. N/C 4. GN/YE	
	P-RSFV 40D EX-*/14.75/NPT	**UL, CSA 4x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 3/4-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GY 4. GN/YE	

See page B54 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

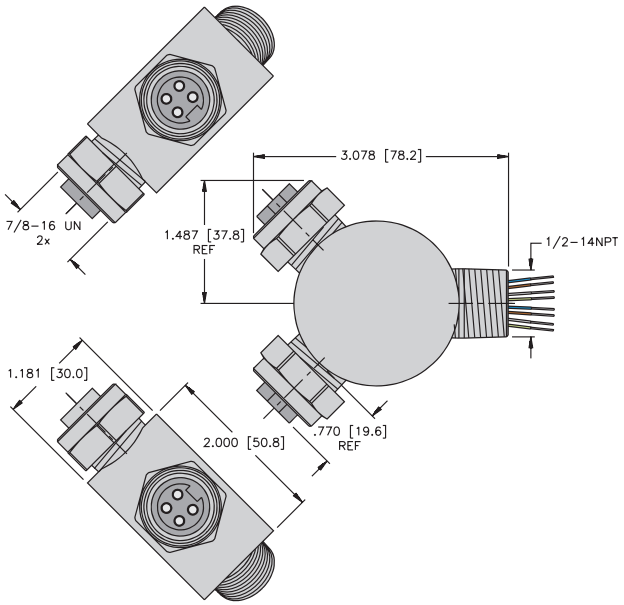
minifast ® "Y" Fittings, 2-Wire Analog or HART Control Circuits

- 600 V
- 9 A Per Conductor
- Installs in Standard Conduit Entries
- Stainless Steel Housing

			1/2-14NPT						3/4-14NPT	
			J1	J2	P1	P2	P1	J2	J1	J2
Specifications	**Wiring Dia.**	**Housing Material**	**Female**	**Female**	**Male**	**Male**	**Male**	**Female**	**Female**	**Female**
4/18 AWG leads per connector	1	SS	P-2RKFV-40EX-*/14.5/NPT		P-2RSFV-40EX-*/14.5/NPT		P-RSFV RKFV-40EX-*/14.5/NPT		P-2RKFV-40EX-*/14.75/NPT	
3/18 AWG leads per connector	2	SS	P-2RKFV-40BEX-*/14.5/NPT		P-2RSFV-40BEX-*/14.5/NPT		P-RSFV RKFV-40BEX-*/14.5/NPT		P-2RKFV-40BEX-*/14.75/NPT	

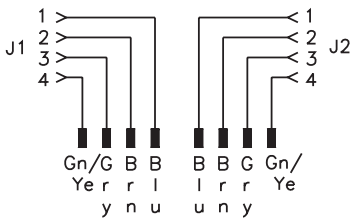
* Length in meters.
SS = Stainless steel

Dimensions

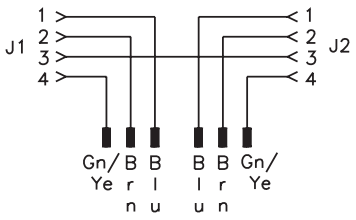


Wiring Diagrams

1



2

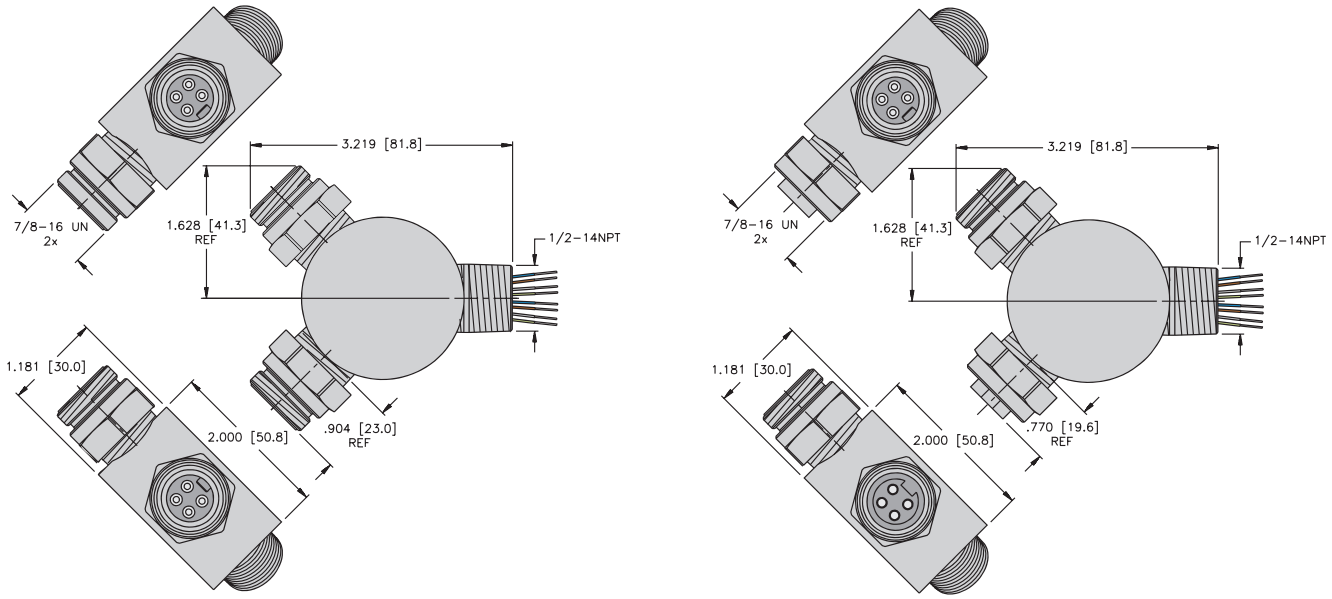


Specifications

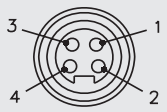
Housing:	316 stainless steel (SS), passivated.
Contact Carrier:	PUR black.
Electrical Ratings:	600 V, 9 A per conductor.
Temperature:	-30° to +105°C (-22° to +221°F).
Contacts:	Gold plated brass.
Protection:	IP 67 (only when all receptacles are mated or covered with plugs).
Leads:	High flex stranding, PVC, insulated, 600 V, UL recognized, CSA certified.

3/4-14NPT				M20x1.5					
P1	P2	P1	J2	J1	J2	P1	P2	P1	J2
Male	Male	Male	Female	Female	Female	Male	Male	Male	Female
P-2RSFV-40EX-*/14.75/NPT		P-RSFV RKFV-40EX-*/14.75/NPT		P-2RKFV-40EX-*/M20		P-2RSFV-40EX-*/M20		P-RSFV RKFV-40EX-*/M20	
P-2RSFV-40BEX-*/14.75/NPT		P-RSFV RKFV-40BEX-*/14.75/NPT		P-2RKFV-40BEX-*/M20		P-2RSFV-40BEX-*/M20		P-RSFV RKFV-40BEX-*/M20	

Dimensions



Pinouts

Female	Male
	
4-Pin	**4-Pin**

multibox® minifast® Metal Junction Boxes w/Integral Home Run Cable

- **Consolidation of 2-wire Analog or HART Control Circuits in Hazardous Locations** or Unclassified Locations**

FM APPROVED

FM approved for installation in hazardous locations when installed per **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) using specified accessory equipment.

4-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
		Port, Pin	Wire Color	Port, Pin	Wire Color		
4-port cast aluminum junction box, ***minifast*** port connectors, integral home-run cable	Home-run cable with 4/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 10.0 mm OD	Port 1, Pin 1	WH/BK	Port 3, Pin 2	RD/WH	P-4 RKF 40-960-*	P-4 RKFV 40-960-*
		Port 1, Pin 2	BK/WH	Port 4, Pin 1	WH/OG		
		Port 2, Pin 1	WH/GN	Port 4, Pin 2	OG/WH		
		Port 2, Pin 2	GN/WH	Ports 1-4, Pin 3	Drain		
		Port 3, Pin 1	WH/RD	Ports 1-4, Pin 4	GN/YE		

8-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
		Port, Pin	Wire Color	Port, Pin	Wire Color		
8-port cast aluminum junction box, ***minifast*** port connectors, integral home-run cable	Home-run cable with 8/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 12.0 mm OD	Port 1, Pin 1	WH/BK	Port 5, Pin 2	BU/WH	P-8 RKF 40-959-*	P-8 RKFV 40-959-*
		Port 1, Pin 2	BK/WH	Port 6, Pin 1	WH/BN		
		Port 2, Pin 1	WH/GN	Port 6, Pin 2	BN/WH		
		Port 2, Pin 2	GN/WH	Port 7, Pin 1	WH/YE		
		Port 3, Pin 1	WH/RD	Port 7, Pin 2	YE/WH		
		Port 3, Pin 2	RD/WH	Port 8, Pin 1	WH/VT		
		Port 4, Pin 1	WH/OG	Port 8, Pin 2	VT/WH		
		Port 4, Pin 2	OG/WH	Ports 1-8, Pin 3	Drain		
		Port 5, Pin 1	WH/BU	Ports 1-8, Pin 4	GN/YE		

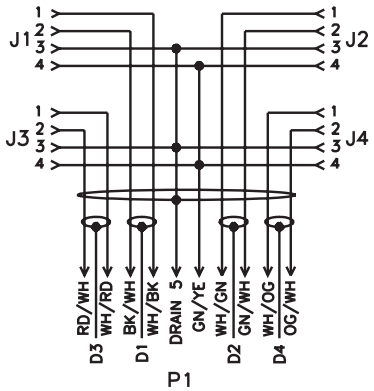
* Length in meters.

** Use with ***lokfast*** LOCK-MINI or LOCK-MINI-FW for port connectors in Class I, Division 2 applications and for mating Home-Run cable use "L" and "T" versions.

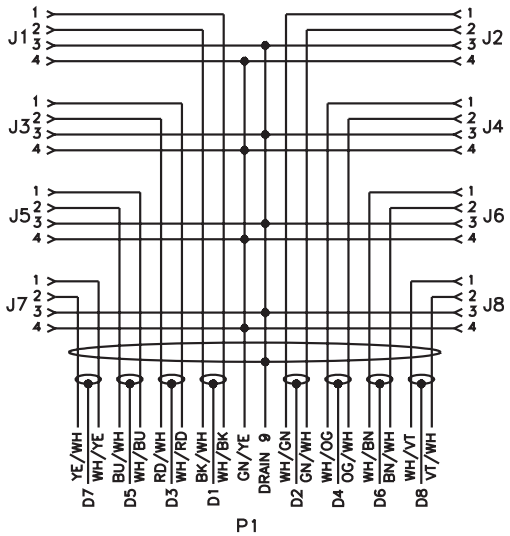
† Each circuit has dedicated drain wire not connected in the junction box.

Wiring Diagrams

4-Port



8-Port

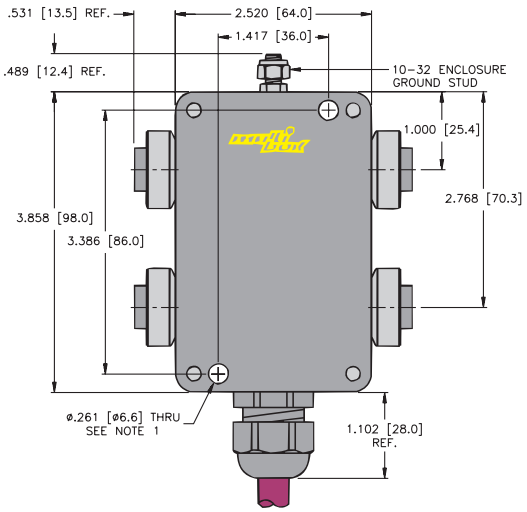


Specifications

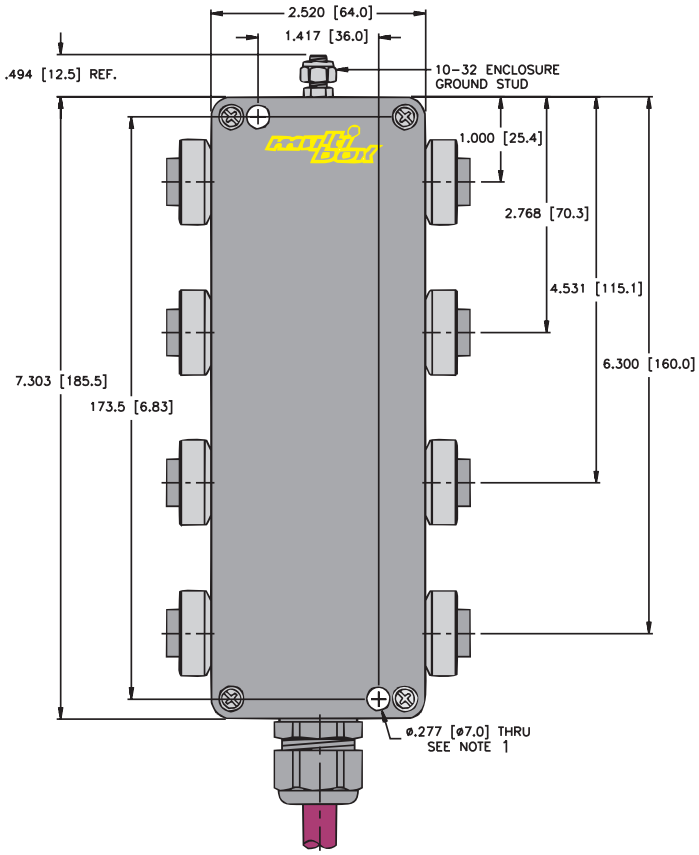
Housing:	Die-cast aluminum alloy.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), oil resistant PUR contact carrier.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Cable:	Plum PVC jacket, UL UTC/PLTC/AWM, CSA CMX-Outdoor/CMG/AWM FT4, 300 V, 105°C.
Protection:	IP 67.
Electrical Rating:	300 V, 4 A per conductor (use as ITC is limited to 150 V, 3 A for 22 AWG conductors).

Dimensions

4-Port

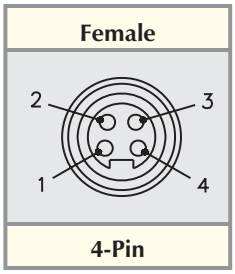


8-Port



Notes:
1. Clearance hole for 1/4-20 mounting screws (2 not included).

Pinouts



multibox® minifast® Metal Junction Boxes w/Integral Home Run Cable

- **Consolidation of 2-wire Analog or HART Control Circuits in Hazardous Locations or Unclassified Locations**
- **Blue Jacket Color may be used as Identification of Intrinsically Safe Circuits.**

FM APPROVED

FM approved for installation in hazardous locations when installed per **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) using specified accessory equipment.

4-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
		Port, Pin	Wire Color	Port, Pin	Wire Color		
4-port cast aluminum junction box, ***minifast*** port connectors, integral home-run cable	Home-run cable with 4/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 12.0 mm OD	Port 1, Pin 1	WH/BK	Port 3, Pin 2	RD/WH	P-4 RKF 40-978-*	P-4 RKFV 40-978-*
		Port 1, Pin 2	BK/WH	Port 4, Pin 1	WH/OG		
		Port 2, Pin 1	WH/GN	Port 4, Pin 2	OG/WH		
		Port 2, Pin 2	GN/WH	Ports 1-4, Pin 3	Drain		
		Port 3, Pin 1	WH/RD	Ports 1-4, Pin 4	GN/YE		

8-port, 1 Analog Signal Per Port, Common Ground and Shield

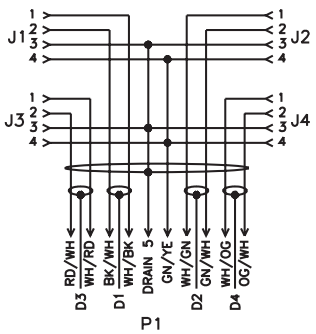
Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
		Port, Pin	Wire Color	Port, Pin	Wire Color		
8-port cast aluminum junction box, ***minifast*** port connectors, integral home-run cable	Home-run cable with 8/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 12.0 mm OD	Port 1, Pin 1	WH/BK	Port 5, Pin 2	BU/WH	P-8 RKF 40-977-*	P-8 RKFV 40-977-*
		Port 1, Pin 2	BK/WH	Port 6, Pin 1	WH/BN		
		Port 2, Pin 1	WH/GN	Port 6, Pin 2	BN/WH		
		Port 2, Pin 2	GN/WH	Port 7, Pin 1	WH/YE		
		Port 3, Pin 1	WH/RD	Port 7, Pin 2	YE/WH		
		Port 3, Pin 2	RD/WH	Port 8, Pin 1	WH/VT		
		Port 4, Pin 1	WH/OG	Port 8, Pin 2	VT/WH		
		Port 4, Pin 2	OG/WH	Ports 1-8, Pin 3	Drain		
		Port 5, Pin 1	WH/BU	Ports 1-8, Pin 4	GN/YE		

* Length in meters.

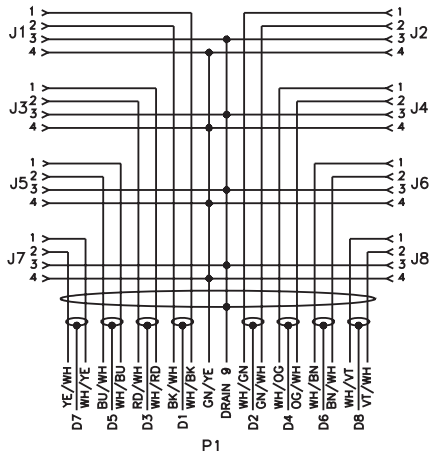
† Each circuit has dedicated drain wire not connected in the junction box.

Wiring Diagrams

4-Port Diagram



8-Port Diagram

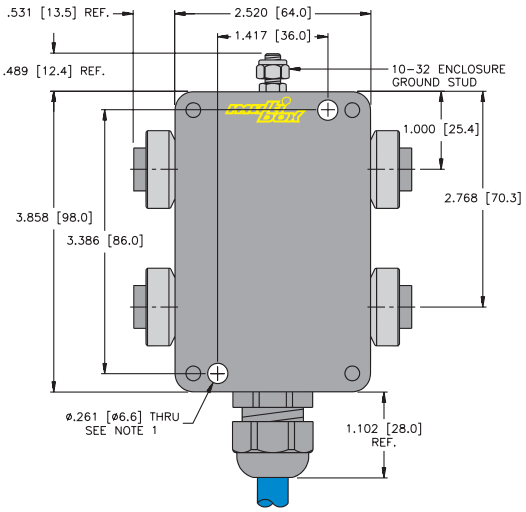


Specifications

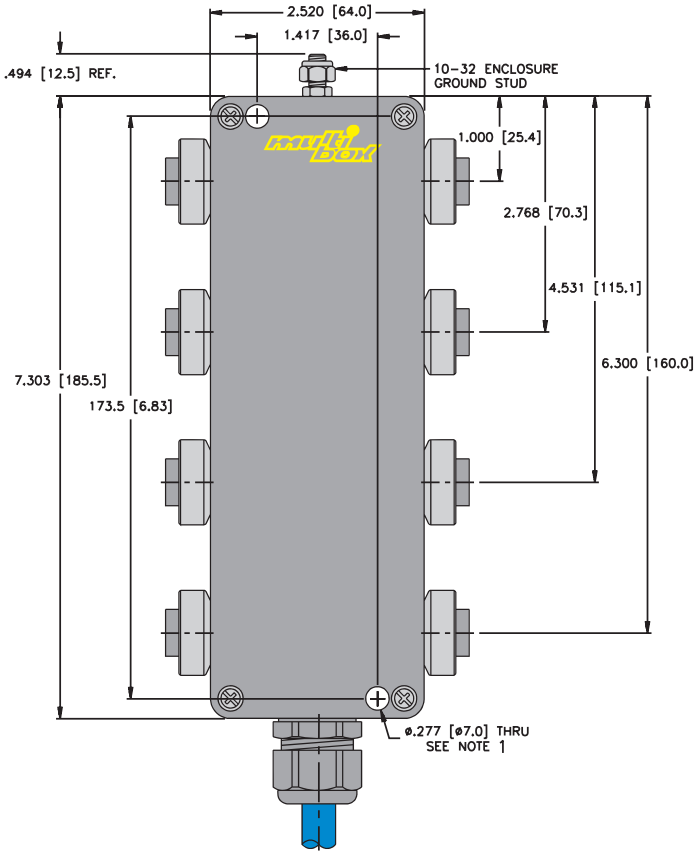
Housing:	Die-cast aluminum alloy.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), oil resistant PUR contact carrier.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Cable:	Blue PVC jacket, UL ITC/PLTC/AWM, CSA CMX-Outdoor/CMG/AWM FT4, 300 V, 105°C.
Protection:	IP 67.
Electrical Rating:	300 V, 4 A per conductor (use as ITC is limited to 150 V, 3 A for 22 AWG conductors).

Dimensions

4-Port

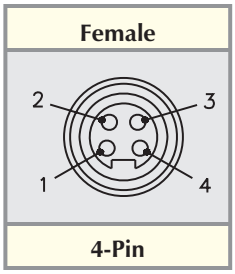


8-Port



Notes:
1. Clearance hole for 1/4-20 mounting screws (2 not included).

Pinouts



multibox® minifast® Metal Junction Boxes

- **Consolidation of 2-wire Analog or HART Control Circuits in Hazardous Locations* or Unclassified Locations**

FM APPROVED

FM approved for installation in hazardous locations when installed per **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) using specified accessory equipment.

4-port, Common Ground and Shield

Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
		Port, Pin	Home Run	Port, Pin	Home Run		
4-port cast aluminum junction box, ***minifast*** port connectors, ***multifast*** ® home-run connector, 1 analog signal per port	12-pin ***multifast*** connector, 9 conductors plus drain	Port 1, Pin 1	1	Port 4, Pin 1	7	P-4 RKF 40-CS12	P-4 RKFV 40-CSV12
		Port 1, Pin 2	2	Port 4, Pin 2	8		
		Port 2, Pin 1	3	NC	9		
		Port 2, Pin 2	4	NC	10		
		Port 3, Pin 1	5	Ports 1-4, Pin 3	11		
		Port 3, Pin 2	6	Ports 1-4, Pin 4	12		

See pages B75 - B82 for mating home run cordsets.

8-port, Common Ground and Shield

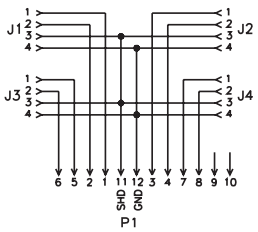
Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
		Port, Pin	Home Run	Port, Pin	Home Run		
8-port cast aluminum junction box, ***minifast*** port connectors, ***multifast*** home-run connector, 1 analog signal per port	19-pin ***multifast*** connector, 17 conductors plus drain	Port 1, Pin 1	1	Port 5, Pin 1	10	P-8 RKF 40-CS19	P-8 RKFV 40-CSV19
		Port 1, Pin 2	2	Port 5, Pin 2	11		
		Port 2, Pin 1	3	Ports 1-8, Pin 4	12		
		Port 2, Pin 2	4	Port 6, Pin 1	13		
		Port 3, Pin 1	5	Port 6, Pin 2	14		
		Ports 1-8, Pin 3	6	Port 7, Pin 1	15		
		Port 3, Pin 2	7	Port 7, Pin 2	16		
		Port 4, Pin 1	8	Port 8, Pin 1	17		
		Port 4, Pin 2	9	Port 8, Pin 2	18		
				NC	19		

* Use with ***lokfast*** LOCK-MINI or LOCK-MINI-FW for port connectors in Class I, Division 2 applications and for mating Home-Run cable use "L" and "T" versions.

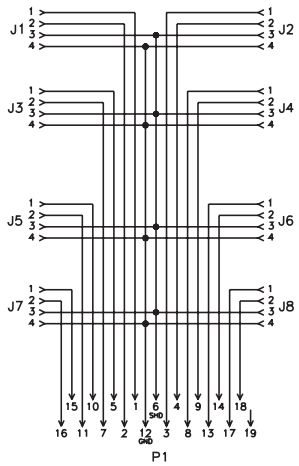
See pages B75 - B82 for mating home run cordsets.

Wiring Diagrams

4-Port Diagram, 1 Analog Signal Per Port



8-Port Diagram, 1 Analog Signal Per Port

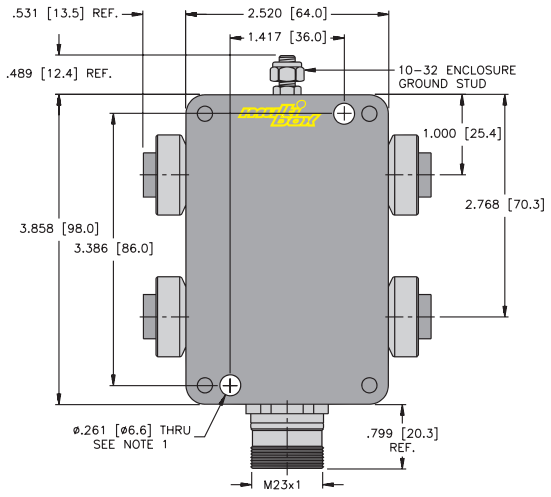


Specifications

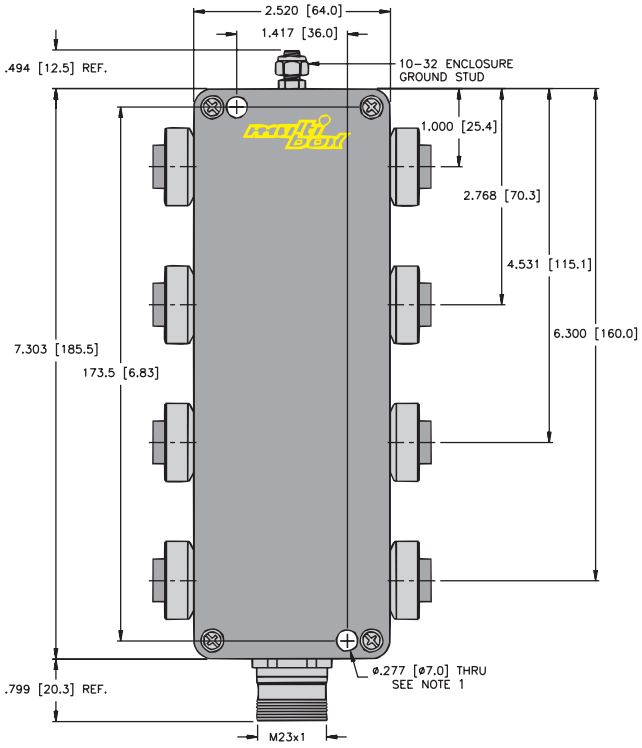
Housing:	Die-cast aluminum alloy.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), oil resistant PUR contact carrier.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 67.
Electrical Rating:	12-pin: 300 V, 4 A per conductor. 19-pin: 150 V, 5 A per conductor.

Dimensions

4-Port

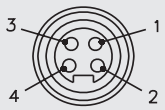
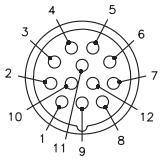
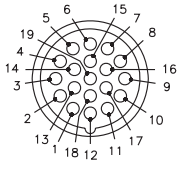


8-Port



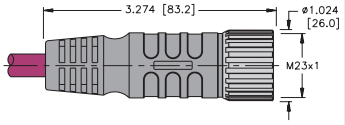
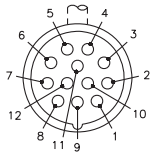
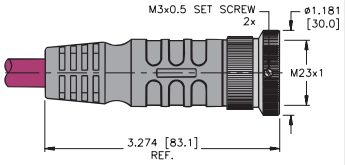
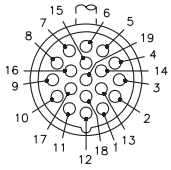
Notes:
1. Clearance hole for 1/4-20 mounting screws (2 not included).

Pinouts

Female	Male	
		
4-Pin *minifast*®	**12-Pin *multifast*®**	**19-Pin *multifast***

multifast® Home Run Cordsets, 2-Wire Analog or HART Control Circuits

- **Straight Female Connectors**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

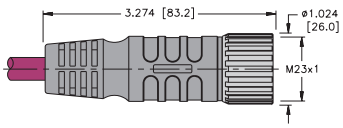
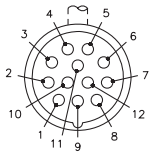
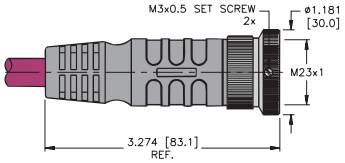
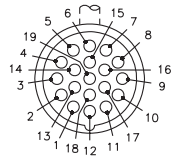
Housing Style	Part Number	Cable	Application	Pinout	
P-CKM .. 	P-CKM 12-960-*	**ITC/PLTC PVC Plum 8x22 AWG, 4 STP with GND Foil/Drain (22) 105°C 250 V, 4 A 10 mm OD Cable #RF50960-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. WH/BK 7. WH/OG 2. BK/WH 8. OG/WH 3. WH/GN 9. N/C 4. GN/WH 10. N/C 5. WH/RD 11. Drain 6. RD/WH 12. GN/YE	
	P-CKM 12-229-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 8x22 AWG, 4 STP with GND Foil/Drain (22) 105°C 250 V, 4 A 9.6 mm OD Cable #RF51229-*M†**			
****P-CKML .. (for Class I, Division 2 applications)** 	P-CKM 19-959-*	**ITC/PLTC PVC Plum 16x22 AWG, 8 STP with GND Foil/Drain (22) 105°C 150 V, 2 A 12 mm OD Cable #RF50959-*M†**		1. WH/BK 11. BU/WH 2. BK/WH 12. GN/YE 3. WH/GN 13. WH/BN 4. GN/WH 14. BN/WH 5. WH/RD 15. WH/YE 6. Drain 16. YE/WH 7. RD/WH 17. WH/VT 8. WH/OG 18. VT/WH 9. OG/WH 19. N/C 10. WH/BU	
	P-CKM 19-230-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 16x22 AWG, 8 STP with GND Foil/Drain (22) 105°C 150 V, 2 A 12.7 mm OD Cable #RF51230-*M†**			

* Length in meters. Standard cable length is 5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-CKM(L)..."; "P-CKM(T)V.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

multifast® Home Run Cordsets, 2-Wire Analog or HART Control Circuits

- **Straight Male Connectors**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

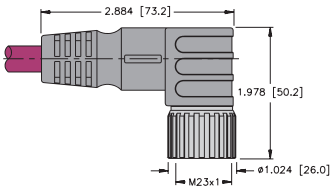
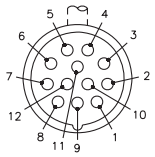
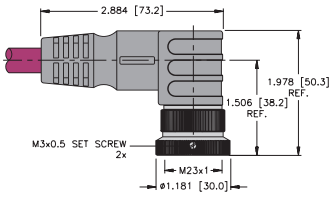
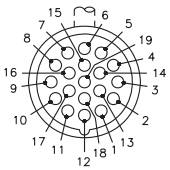
Housing Style	Part Number	Cable	Application	Pinout	
P-CSM .. 	P-CSM 12-960-*	**ITC/PLTC PVC Plum 8x22 AWG, 4 STP with GND Foil/Drain (22) 105°C 250 V, 4 A 10 mm OD Cable #RF50960-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. WH/BK 7. WH/OG 2. BK/WH 8. OG/WH 3. WH/GN 9. N/C 4. GN/WH 10. N/C 5. WH/RD 11. Drain 6. RD/WH 12. GN/YE	
	P-CSM 12-229-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 8x22 AWG, 4 STP with GND Foil/Drain (22) 105°C 250 V, 4 A 9.6 mm OD Cable #RF51229-*M†**			
****P-CSML .. (for Class I, Division 2 applications)** 	P-CSM 19-959-*	**ITC/PLTC PVC Plum 16x22 AWG, 8 STP with GND Foil/Drain (22) 105°C 150 V, 2 A 12 mm OD Cable #RF50959-*M†**		1. WH/BK 11. BU/WH 2. BK/WH 12. GN/YE 3. WH/GN 13. WH/BN 4. GN/WH 14. BN/WH 5. WH/RD 15. WH/YE 6. Drain 16. YE/WH 7. RD/WH 17. WH/VT 8. WH/OG 18. VT/WH 9. OG/WH 19. N/C 10. WH/BU	
	P-CSM 19-230-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 16x22 AWG, 8 STP with GND Foil/Drain (22) 105°C 150 V, 2 A 12.7 mm OD Cable #RF51230-*M†**			

* Length in meters. Standard cable length is 5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-CSM(L).."; "P-CSM(T)V.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

multifast® Home Run Cordsets, 2-Wire Analog or HART Control Circuits

- Right Angle Female Connectors
- NEMA 1, 3, 4, 6P and IEC IP 67 Protection

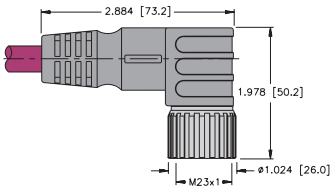
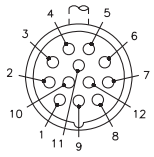
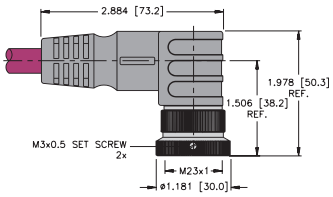
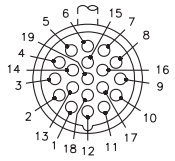
Housing Style	Part Number	Cable	Application	Pinout	
P-CKWM .. 	P-CKWM 12-960-*	**ITC/PLTC PVC Plum 8x22 AWG, 4 STP with GND Foil/Drain (22) 105°C 250 V, 4 A 10 mm OD Cable #RF50960-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. WH/BK 7. WH/OG 2. BK/WH 8. OG/WH 3. WH/GN 9. N/C 4. GN/WH 10. N/C 5. WH/RD 11. Drain 6. RD/WH 12. GN/YE	
	P-CKWM 12-229-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 8x22 AWG, 4 STP with GND Foil/Drain (22) 105°C 250 V, 4 A 9.6 mm OD Cable #RF51229-*M†**			
****P-CKWML .. (for Class I, Division 2 applications)** 	P-CKWM 19-959-*	**ITC/PLTC PVC Plum 16x22 AWG, 8 STP with GND Foil/Drain (22) 105°C 150 V, 2 A 12 mm OD Cable #RF50959-*M†**		1. WH/BK 11. BU/WH 2. BK/WH 12. GN/YE 3. WH/GN 13. WH/BN 4. GN/WH 14. BN/WH 5. WH/RD 15. WH/YE 6. Drain 16. YE/WH 7. RD/WH 17. WH/VT 8. WH/OG 18. VT/WH 9. OG/WH 19. N/C 10. WH/BU	
	P-CKWM 19-230-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 16x22 AWG, 8 STP with GND Foil/Drain (22) 105°C 150 V, 2 A 12.7 mm OD Cable #RF51230-*M†**			

* Length in meters. Standard cable length is 5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-CKWM(L).."; "P-CKWM(T)V.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

multifast® Home Run Cordsets, 2-Wire Analog or HART Control Circuits

- **Right Angle Male Connectors**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

Housing Style	Part Number	Cable	Application	Pinout	
P-CSWM .. 	P-CSWM 12-960-*	**ITC/PLTC PVC Plum 8x22 AWG, 4 STP with GND Foil/Drain (22) 105°C 250 V, 4 A 10mm OD Cable #RF50960-*M†**	***Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. WH/BK 7. WH/OG 2. BK/WH 8. OG/WH 3. WH/GN 9. N/C 4. GN/WH 10. N/C 5. WH/RD 11. Drain 6. RD/WH 12. GN/YE	
	P-CSWM 12-229-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 8x22 AWG, 4 STP with GND Foil/Drain (22) 105°C 250 V, 4 A 9.6mm OD Cable #RF51229-*M†**			
****P-CSWML .. (for Class I, Division 2 applications)** 	P-CSWM 19-959-*	**ITC/PLTC PVC Plum 16x22 AWG, 8 STP with GND Foil/Drain (22) 105°C 150 V, 2 A 12mm OD Cable #RF50959-*M†**		1. WH/BK 11. BU/WH 2. BK/WH 12. GN/YE 3. WH/GN 13. WH/BN 4. GN/WH 14. BN/WH 5. WH/RD 15. WH/YE 6. Drain 16. YE/WH 7. RD/WH 17. WH/VT 8. WH/OG 18. VT/WH 9. OG/WH 19. N/C 10. WH/BU	
	P-CSWM 19-230-*	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 16x22 AWG, 8 STP with GND Foil/Drain (22) 105°C 150 V, 2 A 12.7mm OD Cable #RF51230-*M†**			

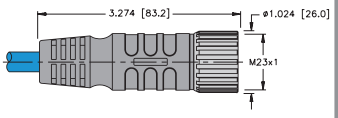
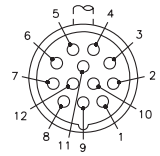
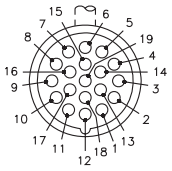
* Length in meters. Standard cable length is 5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-CSWM(L).."; "P-CSWM(T)V.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.

Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

multifast® Home Run Cordsets, 2-Wire Analog or HART Control Circuits

- **Straight Female Connectors**
- **IEC IP 67 Protection**

Housing Style	Part Number	Cable	Application	Pinout	
P-CKM .. 	P-CKM 12-978-*M	**ITC/PLTC PVC Blue** **8x22 AWG, 4 STP with GND Foil/Drain (22)** **105°C** **10 mm OD** **250 V, 4 A** **Cable #RF50978-*M†**	***Multiple 2-wire Intrinsically Safe analog or HART control circuits in Class I, Division 1 hazardous locations.***	1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. WH/OG 8. OG/WH 9. N/C 10. N/C 11. Drain 12. GN/YE	
	P-CKM 19-977-*M	**ITC/PLTC PVC Plum** **16x22 AWG, 8 STP with GND Foil/Drain (22)** **105°C** **12 mm OD** **150 V, 2 A** **Cable #RF50977-*M†**		1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. Drain 7. RD/WH 8. WH/OG 9. OG/WH 10. WH/BU 11. BU/WH 12. GN/YE 13. WH/BN 14. BN/WH 15. WH/YE 16. YE/WH 17. WH/VT 18. VT/WH 19. N/C	

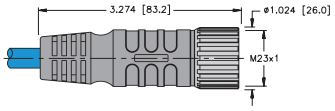
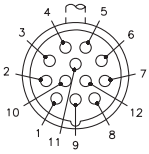
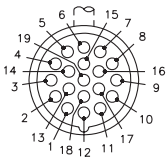
* Length in meters. Standard cable length is 5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-CKWM.."; "P-CKWMV.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.

Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

multifast® Home Run Cordsets, 2-Wire Analog or HART Control Circuits

- **Straight Male Connectors**
- **IEC IP 67 Protection**

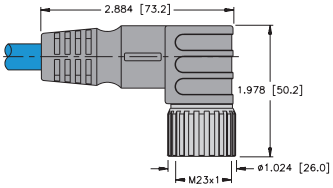
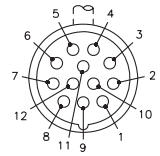
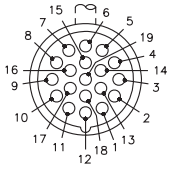
Housing Style	Part Number	Cable	Application	Pinout	
P-CSM .. 	P-CSM 12-978-*M	**ITC/PLTC PVC Blue** **8x22 AWG, 4 STP with GND Foil/Drain (22)** **105°C** **10 mm OD** **250 V, 4 A** **Cable #RF50978-*M†**	***Multiple 2-wire Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations.***	1. WH/BK 7. WH/OG 2. BK/WH 8. OG/WH 3. WH/GN 9. N/C 4. GN/WH 10. N/C 5. WH/RD 11. Drain 6. RD/WH 12. GN/YE	
	P-CSM 19-977-*M	**ITC/PLTC PVC Plum** **16x22 AWG, 8 STP with GND Foil/Drain (22)** **105°C** **12 mm OD** **150 V, 2 A** **Cable #RF50977-*M†**		1. WH/BK 11. BU/WH 2. BK/WH 12. GN/YE 3. WH/GN 13. WH/BN 4. GN/WH 14. BN/WH 5. WH/RD 15. WH/YE 6. Drain 16. YE/WH 7. RD/WH 17. WH/VT 8. WH/OG 18. VT/WH 9. OG/WH 19. N/C 10. WH/BU	

* Length in meters. Standard cable length is 5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-CSWM.."; "P-CSWMV.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

multifast® Home Run Cordsets, 2-Wire Analog or HART Control Circuits

- **Right Angle Female Connectors**
- **IEC IP 67 Protection**

Housing Style	Part Number	Cable	Application	Pinout	
P-CKWM .. 	P-CKWM 12-978-*M	**ITC/PLTC PVC Blue 8x22 AWG, 4 STP with GND Foil/Drain (22) 105°C 10 mm OD 250 V, 4 A Cable #RF50978-*M†**	***Multiple 2-wire Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations.***	1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. WH/OG 8. OG/WH 9. N/C 10. N/C 11. Drain 12. GN/YE	
	P-CKWM 19-977-*M	**ITC/PLTC PVC Plum 16x22 AWG, 8 STP with GND Foil/Drain (22) 105°C 12 mm OD 150 V, 2 A Cable #RF50977-*M†**		1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. Drain 7. RD/WH 8. WH/OG 9. OG/WH 10. WH/BU 11. BU/WH 12. GN/YE 13. WH/BN 14. BN/WH 15. WH/YE 16. YE/WH 17. WH/VT 18. VT/WH 19. N/C	

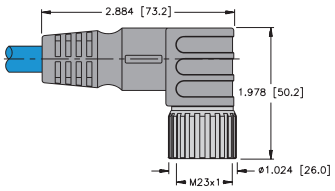
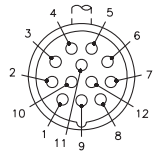
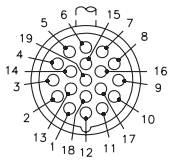
* Length in meters. Standard cable length is 5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-CKWM.."; "P-CKWMV.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.

Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

multifast® Home Run Cordsets, 2-Wire Analog or HART Control Circuits

- **Right Angle Male Connectors**
- **IEC IP 67 Protection**

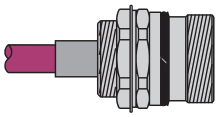
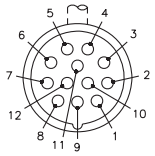
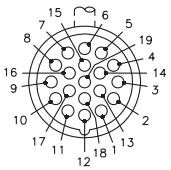
Housing Style	Part Number	Cable	Application	Pinout	
P-CSWM .. 	P-CSWM 12-978-*M	**ITC/PLTC PVC Blue** **8x22 AWG, 4 STP with GND** **Foil/Drain (22)** **105°C** **10 mm OD** **250 V, 4 A** **Cable #RF50978-*M†**	***Multiple 2-wire Intrinsically Safe Analog or HART control circuits in Class I, Division 1 hazardous locations.***	1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. WH/OG 8. OG/WH 9. N/C 10. N/C 11. Drain 12. GN/YE	
	P-CSWM 19-977-*M	**ITC/PLTC PVC Plum** **16x22 AWG, 8 STP with GND** **Foil/Drain (22)** **105°C** **12 mm OD** **150 V, 2 A** **Cable #RF50977-*M†**		1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. Drain 7. RD/WH 8. WH/OG 9. OG/WH 10. WH/BU 11. BU/WH 12. GN/YE 13. WH/BN 14. BN/WH 15. WH/YE 16. YE/WH 17. WH/VT 18. VT/WH 19. N/C	

* Length in meters. Standard cable length is 5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-CSWM.."; "P-CSWMV.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

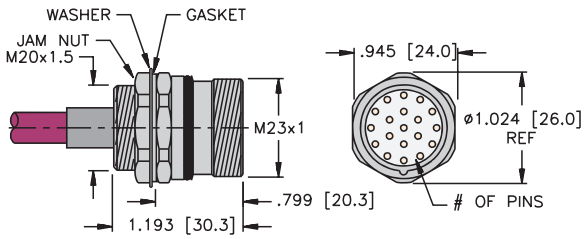
multifast® Home Run Receptacles with Cable, 2-Wire Analog or HART Control Circuits

- Female Receptacles
- NEMA 1, 3, 4, 6P and IEC IP 67 Protection

Housing Style	Part Number	Cable	Application	Pinout	
P-CKFL .. 	P-CKFL 12-960-*	ITC/PLTC PVC Plum 8x22 AWG, 4 STP with GND Foil/Drain (22) 105°C 250 V, 4 A 10 mm OD Cable #RF50960-*M†	*Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.*	1. WH/BK 7. WH/OG 2. BK/WH 8. OG/WH 3. WH/GN 9. N/C 4. GN/WH 10. N/C 5. WH/RD 11. Drain 6. RD/WH 12. GN/YE	
	P-CKFL 12-229-*	ITC-Exposed Run/Direct Burial/PLTC PVC Plum 8x22 AWG, 4 STP with GND Foil/Drain (22) 105°C 250 V, 4 A 9.6 mm OD Cable #RF51229-*M†			
	P-CKFL 19-959-*	ITC/PLTC PVC Plum 16x22 AWG, 8 STP with GND Foil/Drain (22) 105°C 150 V, 2 A 12mm OD Cable #RF50959-*M†		1. WH/BK 11. BU/WH 2. BK/WH 12. GN/YE 3. WH/GN 13. WH/BN 4. GN/WH 14. BN/WH 5. WH/RD 15. WH/YE 6. Drain 16. YE/WH 7. RD/WH 17. WH/VT 8. WH/OG 18. VT/WH 9. OG/WH 19. N/C 10. WH/BU	
	P-CKFL 19-230-*	ITC-Exposed Run/Direct Burial/PLTC PVC Plum 16x22 AWG, 8 STP with GND Foil/Drain (22) 105°C 150 V, 2 A 12.7 mm OD Cable #RF51230-*M†			

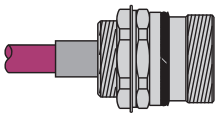
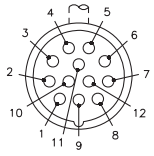
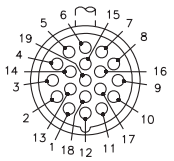
* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-CKFL.."; "P-CKFLV.." indicates 316 stainless steel.
** Use with "T" or "L" cordsets for Class I, Division 2 applications.
† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

Dimensions



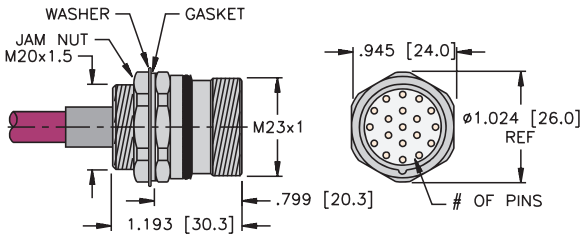
multifast® Home Run Receptacles with Cable, 2-Wire Analog or HART Control Circuits

- Male Receptacles
- NEMA 1, 3, 4, 6P and IEC IP 67 Protection

Housing Style	Part Number	Cable	Application	Pinout	
P-CSFL .. 	P-CSFL 12-960-*	ITC/PLTC PVC Plum 8x22 AWG, 4 STP with GND Foil/Drain (22) 105°C 250 V, 4 A 10 mm OD Cable #RF50960-*M†	*Analog or HART control circuits in Class I, Division 2 hazardous locations** or unclassified locations.*	1. WH/BK 7. WH/OG 2. BK/WH 8. OG/WH 3. WH/GN 9. N/C 4. GN/WH 10. N/C 5. WH/RD 11. Drain 6. RD/WH 12. GN/YE	
	P-CSFL 12-229-*	ITC-Exposed Run/Direct Burial/PLTC PVC Plum 8x22 AWG, 4 STP with GND Foil/Drain (22) 105°C 250 V, 4 A 9.6 mm OD Cable #RF51229-*M†			
	P-CSFL 19-959-*	ITC/PLTC PVC Plum 16x22 AWG, 8 STP with GND Foil/Drain (22) 105°C 150 V, 2 A 12 mm OD Cable #RF50959-*M†		1. WH/BK 11. BU/WH 2. BK/WH 12. GN/YE 3. WH/GN 13. WH/BN 4. GN/WH 14. BN/WH 5. WH/RD 15. WH/YE 6. Drain 16. YE/WH 7. RD/WH 17. WH/VT 8. WH/OG 18. VT/WH 9. OG/WH 19. N/C 10. WH/BU	
	P-CSFL 19-230-*	ITC-Exposed Run/Direct Burial/PLTC PVC Plum 16x22 AWG, 8 STP with GND Foil/Drain (22) 105°C 150 V, 2 A 12.7 mm OD Cable #RF51230-*M†			

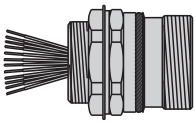
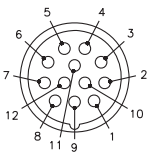
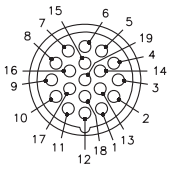
* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-CSFL.."; "P-CSFLV.." indicates 316 stainless steel.
** Use with "T" or "L" cordsets for Class I, Division 2 applications.
† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

Dimensions



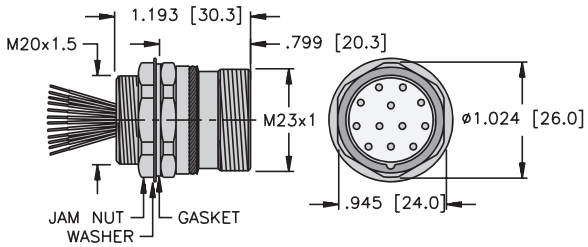
multifast® Home Run Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- **Female Receptacles**
- **IEC IP 67 Protection**

Housing Style	Part Number	Lead Specs	Features	Pinout	
P-CKFL .. 	P-CKFL 12-*	**UL, CSA** **10x22 AWG** **105°C** **300 V, 6 A**	***Multiple 2-wire analog or HART control circuits in hazardous locations or unclassified locations.***	1. WH/BK 7. WH/OG 2. BK/WH 8. OG/WH 3. WH/GN 9. N/C 4. GN/WH 10. N/C 5. WH/RD 11. GY 6. RD/WH 12. GN/YE	
	P-CKFL 19-*	**UL, CSA** **18x22 AWG** **105°C** **150 V, 2 A**		1. WH/BK 11. BU/WH 2. BK/WH 12. GN/YE 3. WH/GN 13. WH/BN 4. GN/WH 14. BN/WH 5. WH/RD 15. WH/YE 6. GY 16. YE/WH 7. RD/WH 17. WH/VT 8. WH/OG 18. VT/WH 9. OG/WH 19. N/C 10. WH/BU	

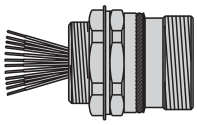
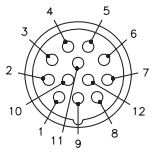
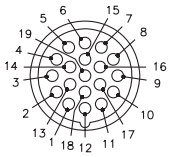
* Length in meters. Standard lead length is 1 meter. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-CKFL.."; "P-CKFLV.." indicates 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

Dimensions



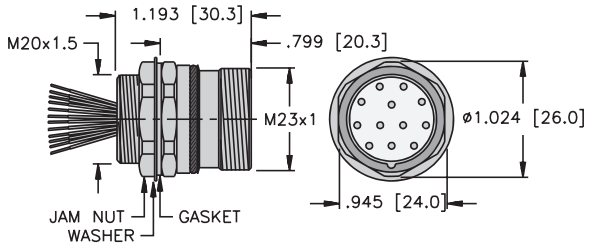
multifast® Home Run Receptacles with Leads, 2-Wire Analog or HART Control Circuits

- Male Receptacles
- IEC IP 67 Protection

Housing Style	Part Number	Lead Specs	Features	Pinout	
P-CSFL .. 	P-CSFL 12-*	**UL, CSA** **10x22 AWG** **105°C** **300 V, 6 A**	***Multiple 2-wire analog or HART control circuits in hazardous locations or unclassified locations.***	1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. WH/OG 8. OG/WH 9. N/C 10. N/C 11. GY 12. GN/YE	
	P-CSFL 19-*	**UL, CSA** **18x22 AWG** **105°C** **150 V, 2 A**		1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. GY 7. RD/WH 8. WH/OG 9. OG/WH 10. WH/BU 11. BU/WH 12. GN/YE 13. WH/BN 14. BN/WH 15. WH/YE 16. YE/WH 17. WH/VT 18. VT/WH 19. N/C	

* Length in meters. Standard lead length is 1 meter. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-CSFL.."; "P-CSFLV.." indicates 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

Dimensions



Additional Analog or Discrete Control Circuits Selection Guide




M12 *eurofast*® Thread	Drop Cordsets	Receptacles with Cable	Receptacles with Leads	Junction Boxes
Pages	C5 - C8	C9 - C12	C13 - C16	C17 - C20






7/8", 1, & 1-1/8" *minifast*® Thread	Drop Cordsets	Receptacles with Cable	Receptacles with Leads	Explosion Proof Receptacles	"Y" Fitting Receptacles	Junction Boxes
Pages	C25 - C32	C33 - C46	C48 - C64	C65 - C72	C73 - C74	C75 - C76

M23 *multifast*® Thread	Home Run Cordsets
Pages	C77 - C78

eurofast® Cordset Part Number Key, Additional Analog or Discrete Control Circuits

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

P - R K G V | 5.1 T - 108 - 2 - R S G V | 5.1T

P = Process Cordset

eurofast

R = Straight
W = Right Angle

Gender

K = Female Connector
S = Male Connector

Plug Body Style

E = Large Plug Body, Right Angle
G = Large, Robust Plug Body

Coupling Nut Options

(Blank) = Nickle Plated Brass
V = 316 Stainless Steel

T = T Barb Fitting
A = Armored Cable

Number of Wires / AWG / Color Codes / Cable Type

5.1T-108 = 4x18 AWG, BU, BN, GN/YE, BK, ITC/PLTC PVC
4.4T-698 = 4x22 AWG, BU, BN, WH, BK, ITC/PLTC PVC
5.3T-095 = 3x18 AWG, BN, WH, BU, BK, ITC/PLTC PUR

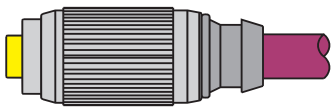
Length in Meters

Insertion Point of Extension Cable and 2nd Prefix*

* Female Connector Listed 1st, Male Connector 2nd
Example: P-RKGV 5.1T-108-2-RSGV 5.1T

Single Ended Example:

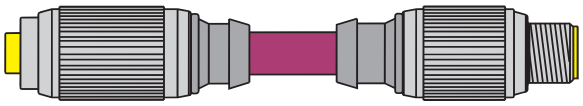
P - R K G V | 5.1 T - 108 - 2



RKGV ..

Extension Example:

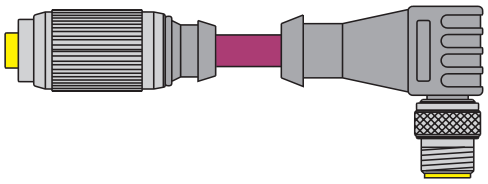
P - R K G | 5.1 T - 108 - 2 - R S G | 5.1 T



RKG .. - RSG ..

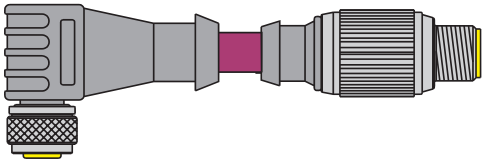
eurofast® Cordset Part Number Key, Additional Analog or Discrete Control Circuits

Other Extension Examples:



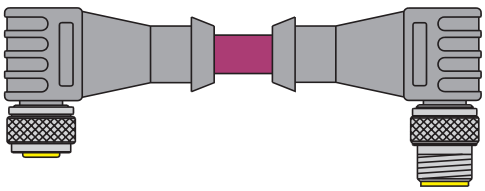
P - R K G | 5.1 T - 108 - 2 - W S E | 5.1 T

RKG .. - WSE ..



P - W K E | 5.1 T - 108 - 2 - R S G | 5.1 T

WKE .. - RSG ..



P - W K E | 5.1 T - 108 - 2 - W S E | 5.1 T

WKE .. - WSE ..

Note: Hybrid connector extensions also available. Consult factory.

eurofast® Receptacle w/Cable Part Number Key, Additional Analog or Discrete Control Circuits

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

P - F K [ ] V 5.1-108 - 2 - /14.5/NPT

P = Process Receptacle

Designator for Receptacle

Gender

K = Female Connector
S = Male Connector

Housing Style

(Blank) = Front Mount

Housing Material

(Blank) = Nickel Plated Brass
V = 316 Stainless Steel

Number of Wires / AWG / Color Codes / Cable Type

5.1-108 = 4x18 AWG, BU, BN, GN/YE, BK, ITC/PLTC PVC
4.4-698 = 4x22 AWG, BU, BN, WH, BK, ITC/PLTC PVC
5.3-095 = 3x18 AWG, BN, WH, BU, BK, ITC/PLTC PUR

Length in Meters

Thread Type

/14.5/NPT = 1/2-14NPT Threads
/14.75/NPT = 3/4-14NPT Threads
/M20 = M20x1.5 Threads

eurofast Receptacle with Leads Part Number Key, Additional Analog or Discrete Control Circuits

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

P - F K [ ] V 4 - 0.5 - /14.5/NPT

P = Process Receptacle

Designator for Receptacle

Gender

K = Female Connector
S = Male Connector

Housing Style

(Blank) = Front Mount
P = Back Panel Mount

Housing Material

(Blank) = Nickel Plated Brass
V = 316 Stainless Steel

Number of Wires

4.4 = 4
5.1 = 4
5.3 = 4

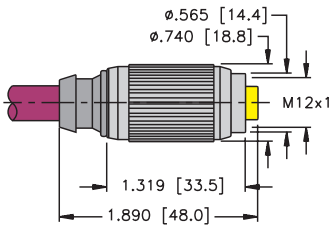
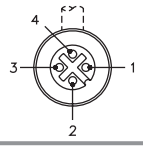
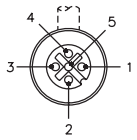
Length in Meters

Thread Type

/14.5/NPT = 1/2-14NPT Threads
/14.75/NPT = 3/4-14NPT Threads
/M20 = M20x1.5 Threads

eurofast® Drop Cordsets, Additional Analog or Discrete Control Circuits

- **Straight Female Connectors**
- **IEC IP 68 Protection**
- **250 V, 4 A (Use as ITC Limited to 150 V, 3 A for 22 AWG Conductors)**

Housing Style	Part Number	Cable	Features	Pinout	
P-RKG .. 	P-RKG 4.4T-698-*	**ITC/PLTC PVC Grey 4x22 AWG 105°C 5.2 mm OD Cable #RF50698-*M†**	***4-wire RTD control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. WH 4. BK	
	P-RKG 5.1T-108-*	**ITC/PLTC PVC Plum 4x18 AWG, 1 Triad with GND Foil/Drain (20) 105°C 8.1 mm OD Cable #RF51108-*M†**	***Discrete or Analog 3-wire circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. Drain 4. BK 5. GN/YE	
	P-RKG 5.3T-095-*	**ITC/PLTC PUR Black 4x22 AWG Foil/Drain (22) 105°C 6.8 mm OD Cable #RF51095-*M†**	***4-wire RTD control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BN 2. WH 3. BU 4. BK 5. Drain	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RKG .."; "P-RKGV .." indicates 316 stainless steel.

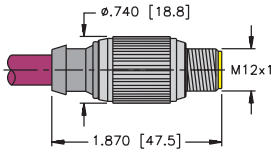
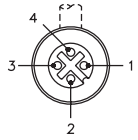
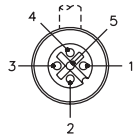
** Use with ***lokfast eurofast*** guards (part number: LOCK-EURO-G) in Class I, Division 2 applications.

† See Section F for ***reelfast***® cable information.

Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Drop Cordsets, Additional Analog or Discrete Control Circuits

- **Straight Male Connectors**
- **IEC IP 68 Protection**
- **250 V, 4 A (Use as ITC Limited to 150 V, 3 A for 22 AWG Conductors)**

Housing Style	Part Number	Cable	Features	Pinout	
P-RSG .. 	P-RSG 4.4T-698-*	**ITC/PLTC PVC Grey 4x22 AWG 105°C 5.2 mm OD Cable #RF50698-*M†**	***4-wire RTD control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. WH 4. BK	
	P-RSG 5.1T-108-*	**ITC/PLTC PVC Plum 4x18 AWG, 1 Triad with GND Foil/Drain (20) 105°C 8.1 mm OD Cable #RF51108-*M†**	***Discrete or Analog 3-wire circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. Drain 4. BK 5. GN/YE	
	P-RSG 5.3T-095-*	**ITC/PLTC PUR Black 4x22 AWG Foil/Drain (22) 105°C 6.8 mm OD Cable #RF51095-*M†**	***4-wire RTD control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BN 2. WH 3. BU 4. BK 5. Drain	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RSG .."; "P-RSGV .." indicates 316 stainless steel.

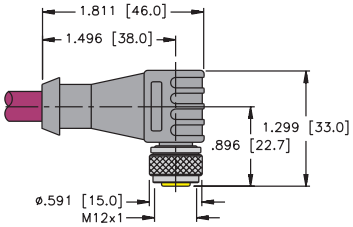
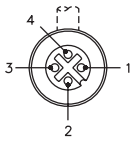
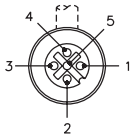
** Use with ***lokfast eurofast*** guards (part number: LOCK-EURO-G) in Class I, Division 2 applications.

† See Section F for ***reelfast***® cable information.

Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Drop Cordsets, Additional Analog or Discrete Control Circuits

- **Right Angle Female Connectors**
- **IEC IP 68 Protection**
- **250 V, 4 A (Use as ITC Limited to 150 V, 3 A for 22 AWG Conductors)**

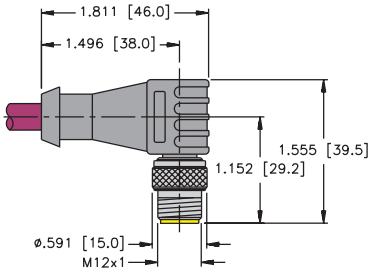
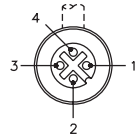
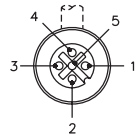
Housing Style	Part Number	Cable	Features	Pinout	
P-WKE .. 	P-WKE 4.4T-698-*	**ITC/PLTC PVC Grey 4x22 AWG 105°C 5.2 mm OD Cable #RF50698-*M†**	***4-wire RTD control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. WH 4. BK	
	P-WKE 5.1T-108-*	**ITC/PLTC PVC Plum 4x18 AWG, 1 Triad with GND Foil/Drain (20) 105°C 8.1 mm OD Cable #RF51108-*M†**	***Discrete or Analog 3-wire circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. Drain 4. BK 5. GN/YE	
	P-WKE 5.3T-095-*	**ITC/PLTC PUR Black 4x22 AWG Foil/Drain (22) 105°C 6.8 mm OD Cable #RF51095-*M†**	***4-wire RTD control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BN 2. WH 3. BU 4. BK 5. Drain	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-WKE .."; "P-WKEV .." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Drop Cordsets, Additional Analog or Discrete Control Circuits

- **Right Angle Male Connectors**
- **IEC IP 68 Protection**
- **250 V, 4 A (Use as ITC Limited to 150 V, 3 A for 22 AWG Conductors)**

Housing Style	Part Number	Cable	Features	Pinout	
P-WSE .. 	P-WSE 4.4T-698-*	**ITC/PLTC PVC Grey 4x22 AWG 105°C 5.2 mm OD Cable #RF50698-*M†**	***4-wire RTD control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. WH 4. BK	
	P-WSE 5.1T-108-*	**ITC/PLTC PVC Plum 4x18 AWG, 1 Triad with GND Foil/Drain (20) 105°C 8.1 mm OD Cable #RF51108-*M†**	***Discrete or Analog 3-wire circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. Drain 4. BK 5. GN/YE	
	P-WSE 5.3T-095-*	**ITC/PLTC PUR Black 4x22 AWG Foil/Drain (22) 105°C 6.8 mm OD Cable #RF51095-*M†**	***4-wire RTD control circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BN 2. WH 3. BU 4. BK 5. Drain	

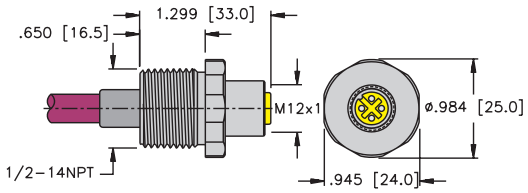
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-WSE .."; "P-WSEV .." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.

Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

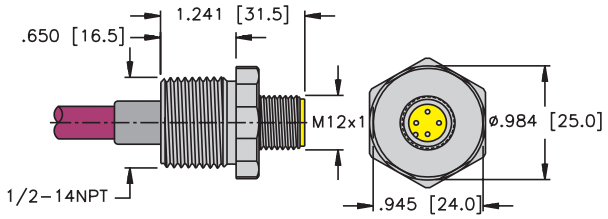
eurofast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

1



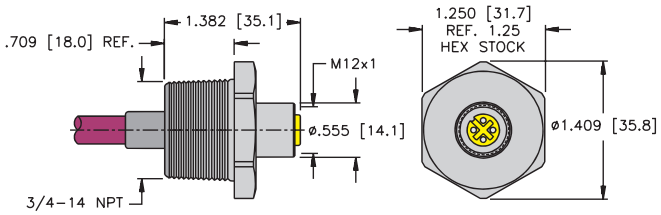
P-FK .. 14.5/NPT **Pages C10 - C12**

2



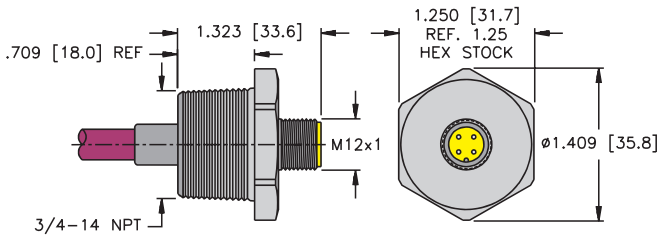
P-FS .. 14.5/NPT **Pages C10 - C12**

3



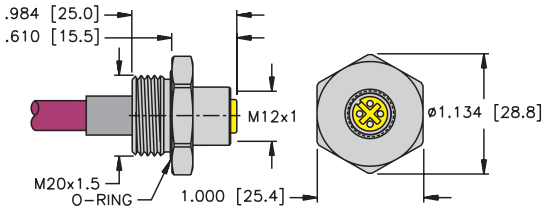
P-FK .. 14.75/NPT **Pages C10 - C12**

4



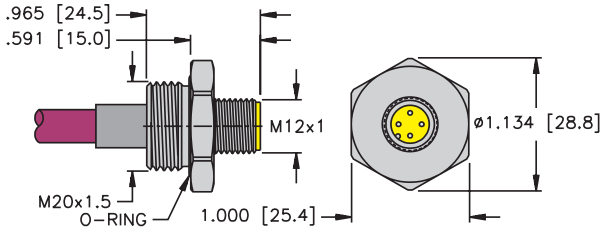
P-FS .. 14.75/NPT **Pages C10 - C12**

5



P-FK .. M20 **Pages C10 - C12**

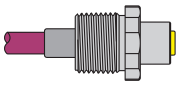
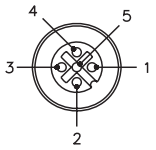
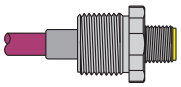
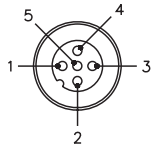
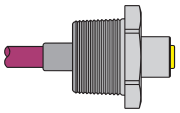
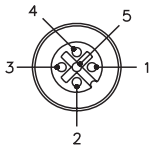
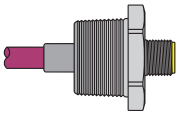
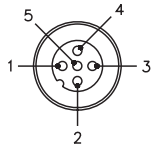
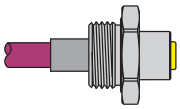
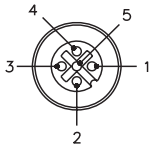
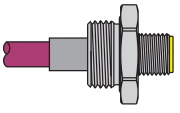
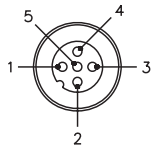
6



P-FS .. M20 **Pages C10 - C12**

eurofast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

- Male and Female Receptacles
- IEC IP 68 Protection
- 250 V, 4 A
  (Use as ITC Limited to 150 V)

Housing Style	Part Number	Cable	Application	Pinout	
1 	P-FK 5.1-108-*/14.5/NPT	ITC/PLTC PVC Plum 4x18 AWG, 1 Shielded Triad with GND Foil/Drain (20) 105°C 8.1 mm OD Cable #RF51108-*M†	*Discrete or Analog 3-wire circuits in Class I, Division 2 hazardous locations or unclassified locations.* *1/2-14NPT Threads.*	1. BU 2. BN 3. Drain 4. BK 5. GN/YE	
2 	P-FS 5.1-108-*/14.5/NPT				
3 	P-FK 5.1-108-*/14.75/NPT		*Discrete or Analog 3-wire circuits in Class I, Division 2 hazardous locations or unclassified locations.* *3/4-14NPT Threads.*		
4 	P-FS 5.1-108-*/14.75/NPT				
5 	P-FK 5.1-108-*/M20		*Discrete or Analog 3-wire circuits in Class I, Division 2 hazardous locations or unclassified locations.* *M20 Threads.*		
6 	P-FS 5.1-108-*/M20				

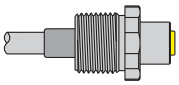
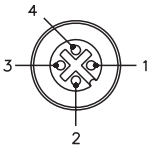
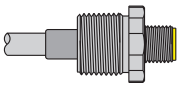
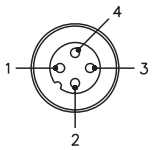
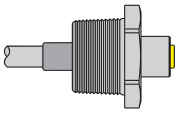
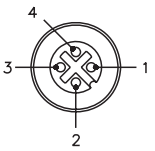
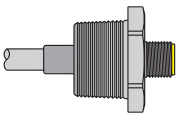
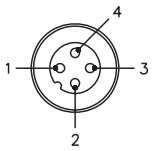
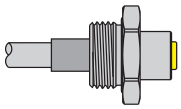
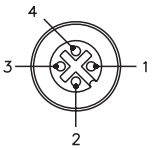
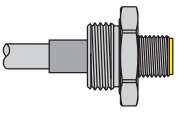
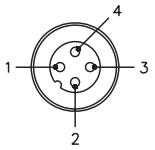
See page C9 for dimensional drawings.

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-FK(S).."; "P-FK(S)V.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting. 1/2-14NPT and M20. 1-1/16" (27.0 mm) for 3/4-14NPT.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

† See Section F for ***reelfast***® cable information.

eurofast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

- Male and Female Receptacles
- IEC IP 68 Protection
- 250 V, 4 A
  (Use as ITC Limited to 150 V)

Housing Style	Part Number	Cable	Application	Pinout	
1 	P-FK 4.4-698-*/14.5	ITC/PLTC PVC Grey 4x22 AWG 105°C 5.2 mm OD Cable #RF50698-*M†	*4-wire RTD control circuits in Class I, Division 2 hazardous locations or unclassified locations. 1/2-14NPT Threads.*	1. BU 2. BN 3. WH 4. BK	
2 	P-FS 4.4-698-*/14.5				
3 	P-FK 4.4-698-*/14.75		*4-wire RTD control circuits in Class I, Division 2 hazardous locations or unclassified locations. 3/4-14NPT Threads.*		
4 	P-FS 4.4-698-*/14.75				
5 	P-FK 4.4-698-*/M20		*4-wire RTD control circuits in Class I, Division 2 hazardous locations or unclassified locations. M20 Threads.*		
6 	P-FS 4.4-698-*/M20				

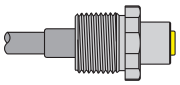
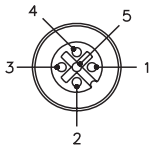
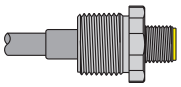
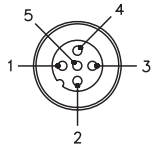
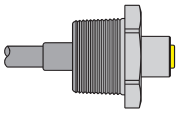
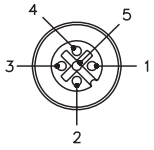
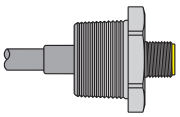
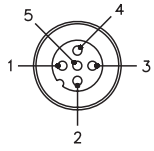
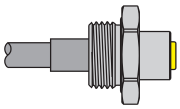
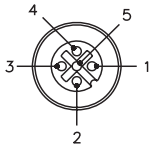
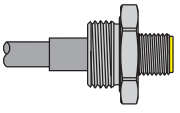
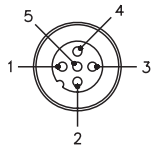
See page C9 for dimensional drawings.

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-FK(S).."; "P-FK(S)V.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting. 1/2-14NPT and M20. 1-1/16" (27.0 mm) for 3/4-14NPT.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

† See Section F for ***reelfast***® cable information.

eurofast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

- **Male and Female Receptacles**
- **IEC IP 68 Protection**
- **250 V, 4 A**
  (Use as ITC Limited to 150 V)

Housing Style	Part Number	Cable	Application	Pinout	
1 	P-FK 5.3-095-*/14.5	**ITC/PLTC PUR Black** **4x22 AWG** **Foil/Drain (22)** **105°C** **6.8 mm OD** **Cable #RF51095-*M†**	***4-wire RTD control circuits in Class I, Division 2 hazardous locations or unclassified locations. 1/2-14NPT Threads.***	1. BU 2. WH 3. BU 4. BK 5. Drain	
2 	P-FS 5.3-095-*/14.5				
3 	P-FK 5.3-095-*/14.75		***4-wire RTD control circuits in Class I, Division 2 hazardous locations or unclassified locations. 3/4-14NPT Threads.***		
4 	P-FS 5.3-095-*/14.75				
5 	P-FK 5.3-095-*/M20		***4-wire RTD control circuits in Class I, Division 2 hazardous locations or unclassified locations. M20 Threads.***		
6 	P-FS 5.3-095-*/M20				

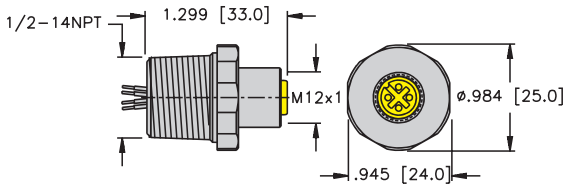
See page C9 for dimensional drawings.

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-FK(S).."; "P-FK(S)V.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting. 1/2-14NPT and M20. 1-1/16" (27.0 mm) for 3/4-14NPT.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

† See Section F for ***reelfast***® cable information.

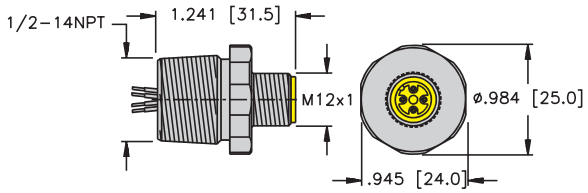
eurofast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

1



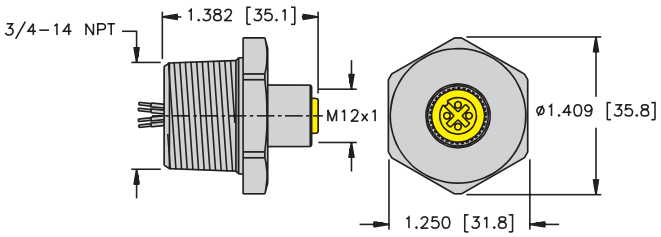
P-FK .. 14.5/NPT **Pages C14 - C16**

2



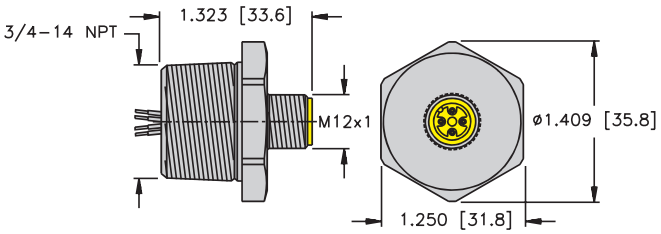
P-FS .. 14.5/NPT **Pages C14 - C16**

3



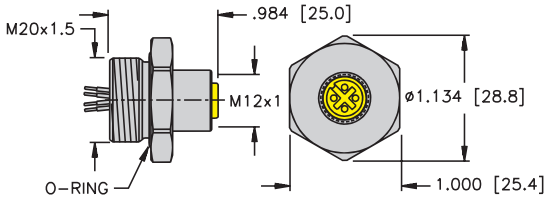
P-FK .. 14.75/NPT **Pages C14 - C16**

4



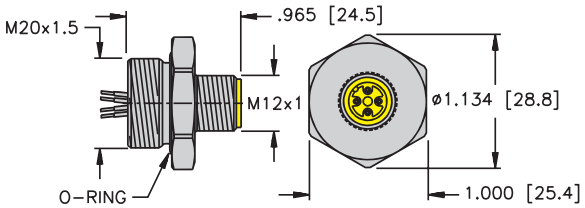
P-FS .. 14.75/NPT **Pages C14 - C16**

5



P-FK .. M20 **Pages C14 - C16**

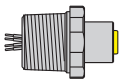
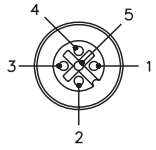
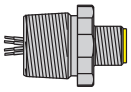
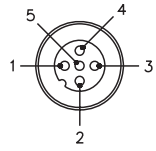
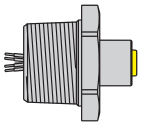
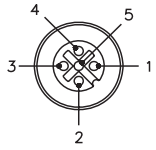
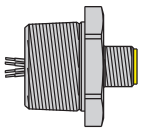
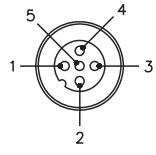
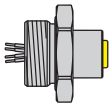
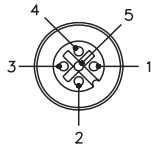
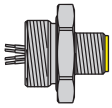
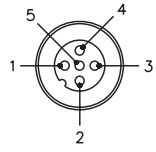
6



P-FS .. M20 **Pages C14 - C16**

eurofast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- Male and Female Receptacles
- IEC IP 68 Protection
- 250 V, 4 A

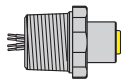
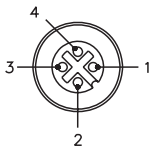
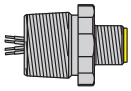
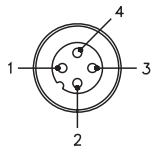
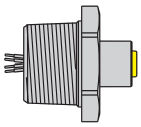
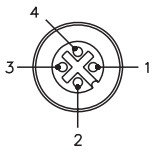
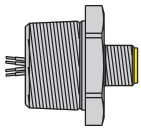
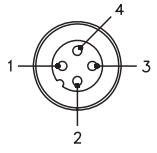
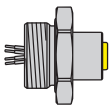
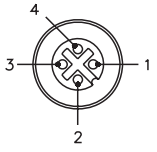
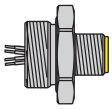
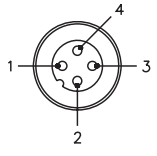
Housing Style	Part Number	Cable	Application	Pinout	
1 	P-FK 5.1-*/14.5/NPT	UL, CSA 4x18 AWG 105°C	*1/2-14NPT Threads*	1. BU 2. BN 3. N/C 4. BK 5. GN/YE	
2 	P-FS 5.1-*/14.5/NPT				
3 	P-FK 5.1-*/14.75/NPT		*3/4-14NPT Threads*		
4 	P-FS 5.1-*/14.75/NPT				
5 	P-FK 5.1-*/M20		*M20 Threads*		
6 	P-FS 5.1-*/M20				

See page C13 for dimensional drawings.

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-FK(S)..."; "P-FK(S)V.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting. 1/2-14NPT and M20. 1-1/16" (27.0 mm) for 3/4-14NPT.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- Male and Female Receptacles
- IEC IP 68 Protection
- 250 V, 4 A

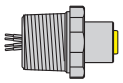
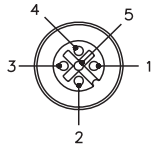
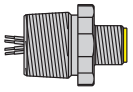
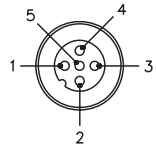
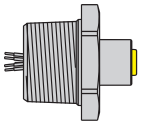
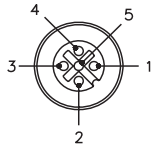
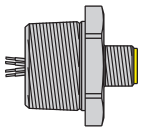
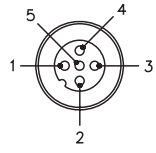
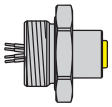
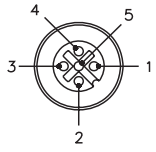
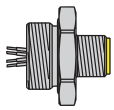
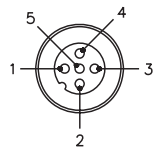
Housing Style	Part Number	Cable	Application	Pinout	
1 	P-FK 4.4-*/14.5	UL, CSA 4x22 AWG 105°C	*1/2-14NPT Threads*	1. BU 2. BN 3. WH 4. BK	
2 	P-FS 4.4-*/14.5				
3 	P-FK 4.4-*/14.75		*3/4-14NPT Threads*		
4 	P-FS 4.4-*/14.75				
5 	P-FK 4.4-*/M20		*M20 Threads*		
6 	P-FS 4.4-*/M20				

See page C13 for dimensional drawings.

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-FK(S).."; "P-FK(S)V.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting. 1/2-14NPT and M20. 1-1/16" (27.0 mm) for 3/4-14NPT.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

eurofast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- Male and Female Receptacles
- IEC IP 68 Protection
- 250 V, 4 A

Housing Style	Part Number	Cable	Application	Pinout	
1 	P-FK 5.3-*/14.5	UL, CSA 4x22 AWG 105°C	*1/2-14NPT Threads*	1. BU 2. WH 3. BU 4. BK 5. N/C	
2 	P-FS 5.3-*/14.5				
3 	P-FK 5.3-*/14.75		*3/4-14NPT Threads*		
4 	P-FS 5.3-*/14.75				
5 	P-FK 5.3-*/M20		*M20 Threads*		
6 	P-FS 5.3-*/M20				

See page C13 for dimensional drawings.

* Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-FK(S).."; "P-FK(S)V.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting. 1/2-14NPT and M20. 1-1/16" (27.0 mm) for 3/4-14NPT.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

multibox® *eurofast*® Metal Junction Boxes w/Integral Home Run Cable

- **Consolidation of Analog or Discrete Circuits in Hazardous Locations or Unclassified Locations**
- **Blue Jacket Color may be used as Identification of Intrinsically Safe Circuits**

FM APPROVED

FM approved for installation in hazardous locations when installed per **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) using specified accessory equipment.

4-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
		Port, Pin	Wire Color	Port, Pin	Wire Color		
4-port cast aluminum junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 4/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 10.0 mm OD	Port 1, Pin 1	WH/BK	Port 3, Pin 2	RD/WH	P-VBM 40-978-*	P-VBMV 40-978-*
		Port 1, Pin 2	BK/WH	Port 4, Pin 1	WH/OG		
		Port 2, Pin 1	WH/GN	Port 4, Pin 2	OG/WH		
		Port 2, Pin 2	GN/WH	Ports 1-4, Pin 3	Drain		
		Port 3, Pin 1	WH/RD	Ports 1-4, Pin 4	GN/YE		

8-port, 1 Analog Signal Per Port, Common Ground and Shield

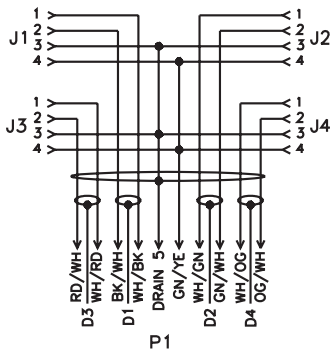
Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
		Port, Pin	Wire Color	Port, Pin	Wire Color		
8-port cast aluminum junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 8/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 12.0 mm OD	Port 1, Pin 1	WH/BK	Port 6, Pin 1	WH/BN	P-VBM 80-977-*	P-VBMV 80-977-*
		Port 1, Pin 2	BK/WH	Port 6, Pin 2	BN/WH		
		Port 2, Pin 1	WH/GN	Port 7, Pin 1	WH/YE		
		Port 2, Pin 2	GN/WH	Port 7, Pin 2	YE/WH		
		Port 3, Pin 1	WH/RD	Port 8, Pin 1	WH/VT		
		Port 3, Pin 2	RD/WH	Port 8, Pin 2	VT/WH		
		Port 4, Pin 1	WH/OG	Ports 1-8, Pin 3	Drain		
		Port 4, Pin 2	OG/WH	Ports 1-8, Pin 4	GN/YE		
		Port 5, Pin 1	WH/BU				
		Port 5, Pin 2	BU/WH				

* Length in meters.

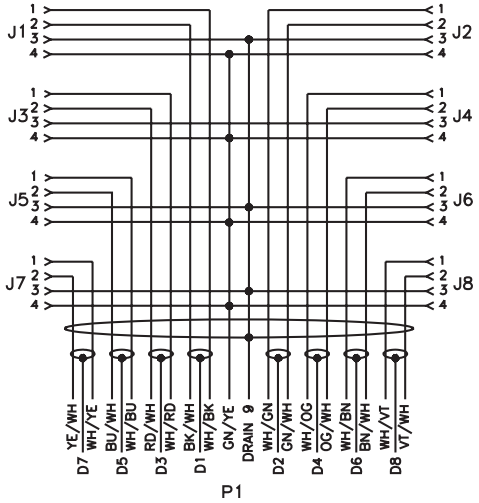
† Each circuit has dedicated drain wire not connected in the junction box.

Wiring Diagrams

4-Port



8-Port

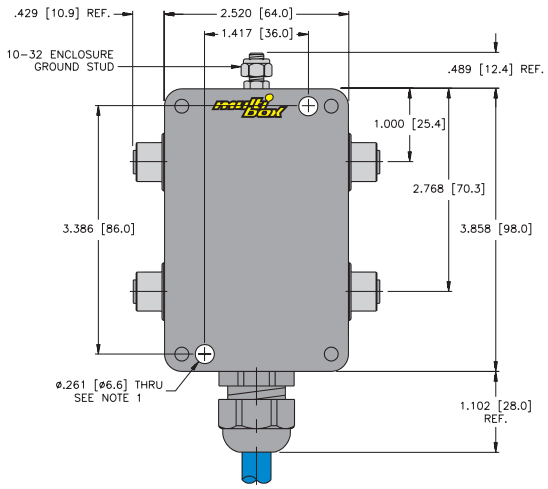


Specifications

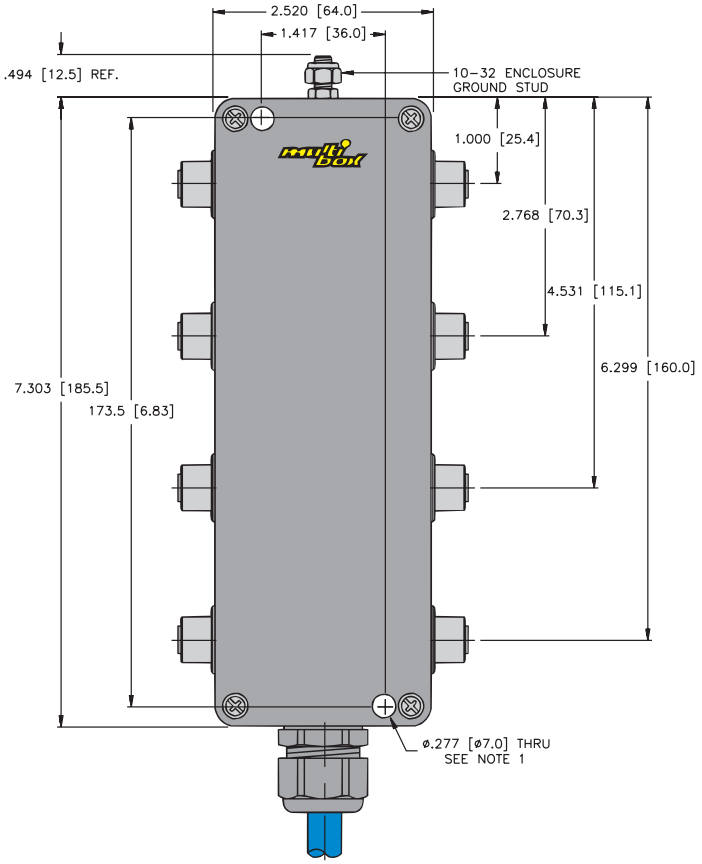
Housing:	Die-cast aluminum alloy.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), oil resistant PUR contact carrier.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 68.
Cable:	Blue PVC jacket, UL ITC/PLTC/AWM, CSA CMX-Outdoor/CMG/AWM FT4, 300 V, 105°C.
Electrical Rating:	250 V, 4 A per conductor (use as ITC is limited to 150 V, 3 A for 22 AWG conductors).

Dimensions

4-Port

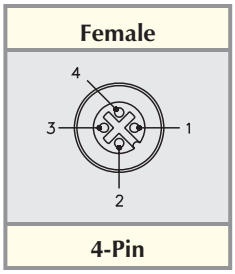


8-Port



Notes:
1. Clearance hole for 1/4-20 mounting screws (2 not included).

Pinouts



multibox® *eurofast*® Metal Junction Boxes

- **Consolidation of Analog or Discrete Circuits in Hazardous Locations** or Unclassified Locations**

FM APPROVED

FM approved for installation in hazardous locations when installed per **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) using specified accessory equipment.

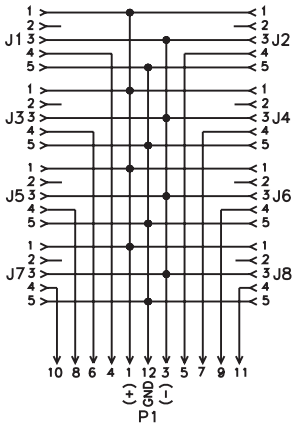
8-port, Common Ground and Shield

Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
8-port cast aluminum junction box, ***eurofast*** port connectors, ***multifast*** home-run connector, 1 discrete signal per port	12-pin ***multifast*** connector	Port, Pin	Home-Run	Port, Pin	Home-Run	P-VBM 84-CS12	P-VBMV 84-CSV12
		V+	1	Port 4, Pin 4	7		
		NC	2	Port 5, Pin 4	8		
		V-	3	Port 6, Pin 4	9		
		Port 1, Pin 4	4	Port 7, Pin 4	10		
		Port 2, Pin 4	5	Port 8, Pin 4	11		
		Port 3, Pin 4	6	Ports 1-8, Pin 5	12		

** Use with ***lokfast*** LOCK-EURO-G for port connectors in Class I, Division 2 applications and for mating Home-Run cable use "L" and "T" versions
See page C77 for mating home run cable.

Wiring Diagram

8-Port Diagram, 1 Discrete Signal Per Port

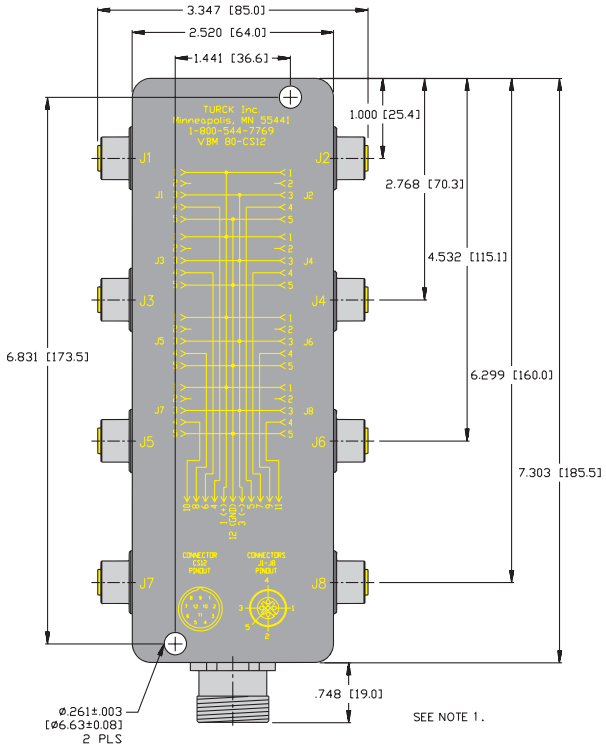


Specifications

Housing:	Die-cast aluminum alloy.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), oil resistant PUR contact carrier.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 67.
Electrical Rating:	150 V, 4 A per conductor.

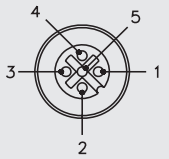
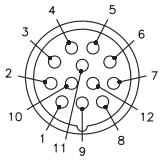
Dimensions

4-Port



Notes:
1. Clearance hole for 1/4-20 mounting screws (2 not included).

Pinouts

Female	Male
	
4-Pin *eurofast*®	**12-Pin *multifast*®**

minifast® Cordset Part Number Key, Additional Analog or Discrete Control Circuits

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

P - R S V | R K V | 51 - 108 - 2

P = Process Cordset

minifast

R = Straight
W = Right Angle

Gender

K = Female Connector, plus Threads
S = Male Connector, plus Threads
Y = Male Connector, Female Threads

Coupling Nut Options

(Blank) = Nickel Plated Brass
V = 316 Stainless Steel

Insertion Point of Extension Cable and 2nd Prefix*

* Male Connector Listed 1st, Female Connector 2nd
Example: P-RSV RKV 51-108-2

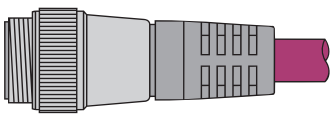
Length in Meters

Number of Wires / AWG / Color Codes / Cable Type

51-108 = 4x18 AWG, AWG, BU, BN, GN/YE, BK, ITC/PLTC PVC
55-099 = 4x16 AWG, WH, BK, GN, RD, ITC/PLTC PVC
55-328 = 4x16 AWG, WH, BK, GN, RD, ITC/PLTC PVC
60-025 = 5x16 AWG, BU, BN, GN/YE, WH, BK, ITC/PLTC PVC
63-233 = 6x16 AWG, WH, RD, GN, OG, BK, BU, ITC-Exposed Run/Direct Burial/PLTC PVC
71-219 = 6x16 AWG, WH, BK, RD, OG, BU, GN, ITC/PLTC PVC
71-329 = 6x16 AWG, WH, BK, RD, OG, BU, GN, ITC/PLTC PVC
321-088 = 3x18 AWG, GN/YE, BN, BU, ITC/PLTC PVC
33-187 = 3x18 AWG, GN, BK, WH, ITC/PLTC PVC
442A-041 = 4x18 AWG, BK, WH, RD, GN, PVC Armor
52-972 = 5x18 AWG, BK, WH, GY, BN, BU, ITC/PLTC PVC
63-030 = 6x16 AWG, WH, RD, GN, OG, BK, BU, ITC/PLTC PVC
66-318 = 5x18 AWG, BU, BN, GN/YE, WH, BK, ITC/PLTC PVC

Single Ended Example:

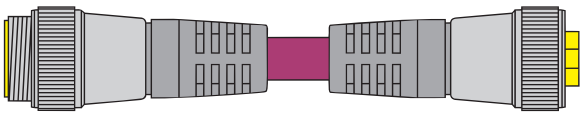
P - R S V | 51- 108 - 2M



RSV ..

Extension Example:

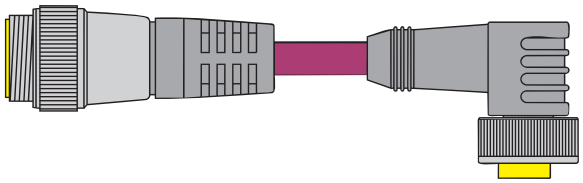
P - R S V | R K V | 51- 108 - 2M



RSV .. - RKV ..

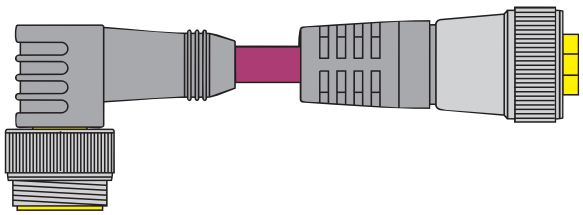
minifast® Cordset Part Number Key, Additional Analog or Discrete Control Circuits

Other Extension Examples:



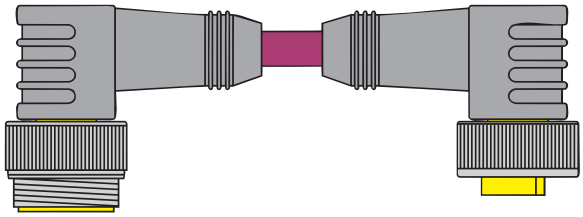
RSV .. - WKV ..

P - R S V | W K V | 51 - 108 - 2M



WSV .. - RKV ..

P - W S V | R K V | 51 - 108 - 2M



WSV .. - WKV ..

P - W S V | W K V | 51 - 108 - 2M

Note: Hybrid connector extensions also available. Consult factory.

minifast® Receptacles with Cable Part Number Key, Additional Analog or Discrete Control Circuits

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

P	-	R	K	F		V		51 - 108	-	2	-	/14.5/NPT

P = Process Receptacle

Designator for Receptacle

Gender

K = Female Connector
S = Male Connector
X = Female Connector, Male Threads

Housing Style

(Blank) = Front Mount
P = Back Panel Mount

Housing Material

(Blank) = Nickel Plated Brass
V = 316 Stainless Steel

Number of Wires / AWG / Color Codes / Cable Type

51-108 = 4x18 AWG, AWG, BU, BN, GN/YE, BK, ITC/PLTC PVC
55-099 = 4x16 AWG, WH, BK, GN, RD, ITC/PLTC PVC
55-328 = 4x16 AWG, WH, BK, GN, RD, ITC/PLTC PVC
60-025 = 5x16 AWG, BU, BN, GN/YE, WH, BK, ITC/PLTC PVC
63-233 = 6x16 AWG, WH, RD, GN, OG, BK, BU, ITC-Exposed Run/Direct Burial/PLTC PVC
71-219 = 6x16 AWG, WH, BK, RD, OG, BU, GN, ITC/PLTC PVC
71-329 = 6x16 AWG, WH, BK, RD, OG, BU, GN, ITC/PLTC PVC
321-088 = 3x18 AWG, GN/YE, BN, BU, ITC/PLTC PVC
33-187 = 3x18 AWG, GN, BK, WH, ITC/PLTC PVC
442A-041 = 4x18 AWG, BK, WH, RD, GN, PVC Armor
52-972 = 5x18 AWG, BK, WH, GY, BN, BU, ITC/PLTC PVC
63-030 = 6x16 AWG, WH, RD, GN, OG, BK, BU, ITC/PLTC PVC
66-318 = 5x18 AWG, BU, BN, GN/YE, WH, BK, ITC/PLTC PVC

Length in Meters

Thread Type

/14.5/NPT = 1/2-14NPT Threads
/14.75/NPT = 3/4-14NPT Threads
/M20 = M20x1.5 Threads

minifast® Receptacles with Leads Part Number Key, Additional Analog or Discrete Control Circuits

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

P - R K F [ ] V 44 - 0.2 - /14.5/NPT

P = Process Receptacle

Designator for Receptacle

Gender

K = Female Connector
S = Male Connector
X = Female Connector, Male Threads

Housing Style

(Blank) = Front Mount
P = Back Panel Mount

Housing Material

(Blank) = Nickel Plated Brass
V = 316 Stainless Steel

Number of Wires

44 = 4
442 = 4
45 = 3
52 = 5
56 = 5
60 = 5
60D = 6 including drain
63 = 6
70 = 7
80 = 8
100 = 10

Length in Meters

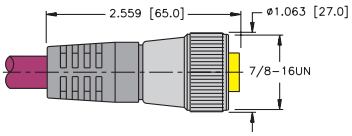
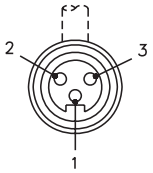
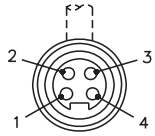
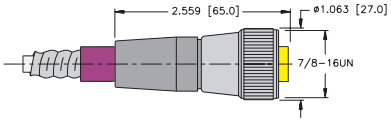
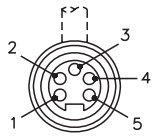
Thread Type

(Blank) = 1/2-14NPSM Threads
/14.5/NPT = 1/2-14NPT Threads
/14.75/NPT = 3/4-14NPT Threads
/M20 = M20x1.5 Threads

minifast® Drop Cordsets, Additional Analog or Discrete Control Circuits

- **Straight Female Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinouts	
P-RKM .. 	P-RKM 321-880-*M	**ITC/PLTC PVC Yellow 3x18 AWG 105°C 7.2 mm OD Cable #RF50880-*M†**	***Discrete I/O devices in Class I, Division 2 hazardous locations** or unclassified locations.***	1. GN/YE 2. BN 3. BU	
	P-RKM 33-187-*M	**ITC/PLTC PVC Grey 3x18 AWG 105°C 7.2 mm OD Cable #RF51187-*M†**		1. GN 2. BK 3. WH	
	P-RKM 442A-041-*M	**ITC/PLTC ARMOR PVC Yellow 4x18 AWG 105°C 13.5 mm OD Cable #RF51041-*M†**		1. BK 2. WH 3. RD 4. GN	
	P-RKM 51-108-*M	**ITC/PLTC PVC Plum 4x18 AWG, 1 Shielded Triad with GND Foil/Drain (20) 105°C 8.1 mm OD Cable #RF51108-*M†**	***Discrete or Analog 3-wire circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. GN/YE 4. Drain 5. BK	
P-RKM 442A-041 .. 	P-RKM 52-972-*M	**ITC/PLTC PVC Grey 5x18 AWG 105°C 7.2 mm OD Cable #RF50972-*M†**	***Discrete I/O Devices in Class I, Division 2 Hazardous Locations** or Unclassified Locations.***	1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RKM 55-099-*M	**ITC/PLTC PVC Plum 4x16 AWG, 1 Shielded Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51099-*M†**	***Discrete or Analog 3-wire circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. WH 2. BK 3. GN 4. RD 5. Drain	
	P-RKM 55-328-*M	**ITC/PLTC PVC Blue 4x16 AWG, 1 Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51328-*M†**		1. WH 2. BK 3. GN 4. RD 5. Drain	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RKM.."; "P-RKV.." indicates 316 stainless steel.

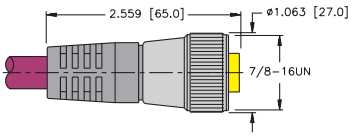
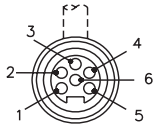
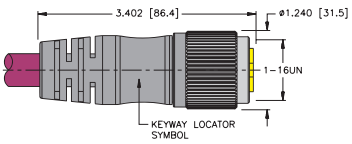
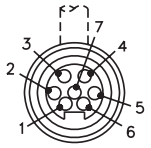
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Drop Cordsets, Additional Analog or Discrete Control Circuits

- **Straight Female Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinouts	
P-RKM .. 	P-RKM 60-025-*M	**ITC/PLTC PVC Plum 5x16 AWG, 1 STP plus 1 Triad Foil/Drain (18) 105°C 12.5 mm OD Cable #RF51025-*M†**	***Instruments with separate power or signal circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
	P-RKM 63-030-*M	**ITC/PLTC PVC Yellow 6x16 AWG 105°C 9.6 mm OD Cable #RF51030-*M†**	***Discrete I/O devices in Class I, Division 2 hazardous locations** or unclassified locations.***	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RKM 63-233-*M	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 6x16 AWG 105°C 11.2 mm OD Cable #RF51233-*M†**		1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RKM 66-318-*M	**ITC/PLTC PVC Plum 5x18 AWG, 2 STP with GND Foil/Drain (20) 105°C 7.9 mm OD Cable #RF51318-*M†**		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
P-RKM .. 	P-RKM 71-219-*M	**ITC/PLTC PVC Plum 6x16 AWG Foil Drain (18) 105°C 9.6 mm OD Cable #RF51219-*M†**		1. WH 2. BK 3. Drain 4. RD 5. OG 6. BU 7. GN	
	P-RKM 71-329-*M	**ITC/PLTC PVC Blue 6x16 AWG Foil Drain (18) 105°C 9.6 mm OD Cable #RF51329-*M†**			

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RKM.."; "P-RKV.." indicates 316 stainless steel.

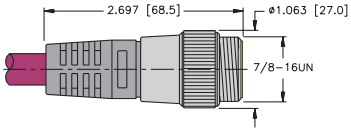
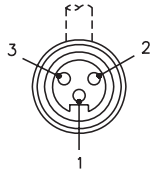
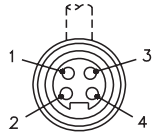
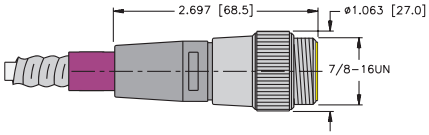
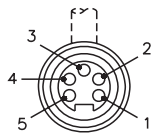
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI + LOCK-MINI-B&C) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Drop Cordsets, Additional Analog or Discrete Control Circuits

- **Straight Male Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A (use as ITC limited to 150 V, 5 A)**

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinouts	
P-RSM .. 	P-RSM 321-880-*M	**ITC/PLTC PVC Yellow 3x18 AWG 105°C 7.2 mm OD Cable #RF50880-*M†**	*Discrete I/O devices in Class I, Division 2 hazardous locations** or unclassified locations.*	1. GN/YE 2. BN 3. BU	
	P-RSM 33-187-*M	**ITC/PLTC PVC Grey 3x18 AWG 105°C 7.2 mm OD Cable #RF51187-*M†**		1. GN/YE 2. BN 3. BU	
	P-RSM 442A-041-*M	**ITC/PLTC ARMOR PVC Yellow 4x18 AWG 105°C 13.5 mm OD Cable #RF51041-*M†**		1. BK 2. WH 3. RD 4. GN	
P-RSM 442A-041 .. 	P-RSM 51-108-*M	**ITC/PLTC PVC Plum 4x18 AWG, 1 Shielded Triad with GND Foil/Drain (20) 105°C 8.1 mm OD Cable #RF51108-*M†**	*Discrete or Analog 3-wire circuits in Class I, Division 2 hazardous locations** or unclassified locations.*	1. BU 2. BN 3. GN/YE 4. Drain 5. BK	
	P-RSM 52-972-*M	**ITC/PLTC PVC Grey 5x18 AWG 105°C 7.2 mm OD Cable #RF50972-*M†**	*Discrete I/O Devices in Class I, Division 2 Hazardous Locations** or Unclassified Locations.*	1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RSM 55-099-*M	**ITC/PLTC PVC Plum 4x16 AWG, 1 Shielded Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51099-*M†**		1. WH 2. BK 3. GN 4. RD 5. Drain	
	P-RSM 55-328-*M	**ITC/PLTC PVC Blue 4x16 AWG, 1 Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51328-*M†**	*Discrete or Analog 3-wire circuits in Class I, Division 2 hazardous locations** or unclassified locations.*		

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths. Standard coupling nut material is nickel plated brass "P-RSM.."; "P-RSV.." indicates 316 stainless steel.

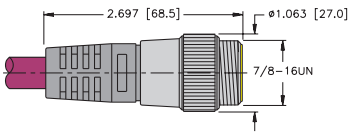
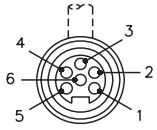
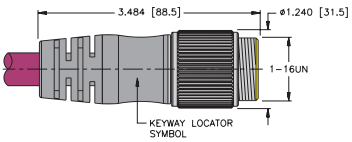
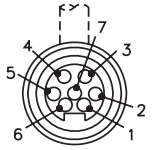
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Drop Cordsets, Additional Analog or Discrete Control Circuits

- **Straight Male Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinouts	
P-RSM .. 	P-RSM 60-025-*M	**ITC/PLTC PVC Plum 5x16 AWG, 1 STP plus 1 Triad Foil/Drain (18) 105°C 12.5 mm OD Cable #RF51025-*M†**	***Instruments with separate power or signal circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
	P-RSM 63-030-*M	**ITC/PLTC PVC Yellow 6x16 AWG 105°C 9.6 mm OD Cable #RF51030-*M†**	***Discrete I/O Devices in Class I, Division 2 Hazardous Locations** or Unclassified Locations.***	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RSM 63-233-*M	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 6x16 AWG 105°C 11.2 mm OD Cable #RF51233-*M†**		1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RSM 66-318-*M	**ITC/PLTC PVC Plum 5x18 AWG, 2 STP with GND Foil/Drain (20) 105°C 7.9 mm OD Cable #RF51318-*M†**		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
P-RSM .. 	P-RSM 71-219-*M	**ITC/PLTC PVC Plum 6x16 AWG Foil Drain (18) 105°C 9.6 mm OD Cable #RF51219-*M†**		1. WH 2. BK 3. Drain 4. RD 5. OG 6. BU 7. GN	
	P-RSM 71-329-*M	**ITC/PLTC PVC Blue 6x16 AWG Foil Drain (18) 105°C 9.6 mm OD Cable #RF51329-*M†**			

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-RSM.."; "P-RSV.." indicates 316 stainless steel.

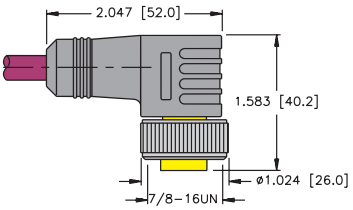
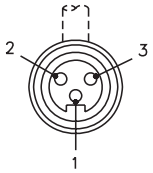
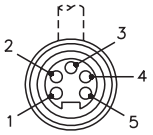
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI + LOCK-MINI-B&C) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Drop Cordsets, Additional Analog or Discrete Control Circuits

- **Right Angle Female Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A (use as ITC limited to 150 V, 5 A)**

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinouts	
P-WKM .. 	P-WKM 321-880-*M	**ITC/PLTC PVC Yellow 3x18 AWG 105°C 7.2 mm OD Cable #RF50880-*M†**	***Discrete I/O devices in Class I, Division 2 hazardous locations** or unclassified locations.***	1. GN/YE 2. BN 3. BU	
	P-WKM 33-187-*M	**ITC/PLTC PVC Grey 3x18 AWG 105°C 7.2 mm OD Cable #RF51187-*M†**		1. GN 2. BK 3. WH	
	P-WKM 51-108-*M	**ITC/PLTC PVC Plum 4x18 AWG, 1 Shielded Triad with GND Foil/Drain (20) 105°C 8.1 mm OD Cable #RF51108-*M†**	***Discrete or Analog 3-wire circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. GN/YE 4. Drain 5. BK	
	P-WKM 52-972-*M	**ITC/PLTC PVC Grey 5x18 AWG 105°C 7.2 mm OD Cable #RF50972-*M†**	***Discrete I/O Devices in Class I, Division 2 Hazardous Locations** or Unclassified Locations.***	1. BK 2. WH 3. GY 4. BN 5. BU	
	P-WKM 55-099-*M	**ITC/PLTC PVC Plum 4x16 AWG, 1 Shielded Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51099-*M†**	***Discrete or Analog 3-wire circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. WH 2. BK 3. GN 4. RD 5. Drain	
	P-WKM 55-328-*M	**ITC/PLTC PVC Blue 4x16 AWG, 1 Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51328-*M†**			

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-WKM.."; "P-WKV.." indicates 316 stainless steel.

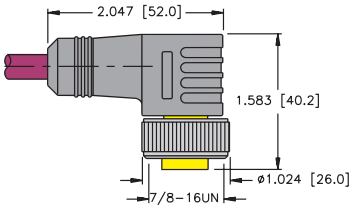
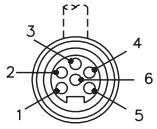
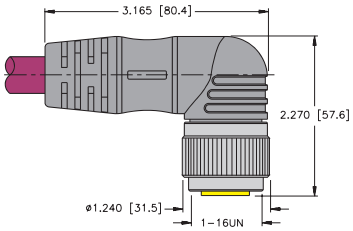
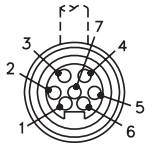
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI-ANGLE) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Drop Cordsets, Additional Analog or Discrete Control Circuits

- **Right Angle Female Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinouts	
P-WKM .. 	P-WKM 60-025-*M	**ITC/PLTC PVC Plum 5x16 AWG, 1 STP plus 1 Triad Foil/Drain (18) 105°C 12.5 mm OD Cable #RF51025-*M†**	***Instruments with separate power or signal circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
	P-WKM 63-030-*M	**ITC/PLTC PVC Yellow 6x16 AWG 105°C 9.6 mm OD Cable #RF51030-*M†**		1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-WKM 63-233-*M	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 6x16 AWG 105°C 11.2 mm OD Cable #RF51233-*M†**		1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-WKM 66-318-*M	**ITC/PLTC PVC Plum 5x18 AWG, 2 STP with GND Foil/Drain (20) 105°C 7.9 mm OD Cable #RF51318-*M†**	***Discrete I/O devices in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
P-WKM .. 	P-WKM 71-219-*M	**ITC/PLTC PVC Plum 6x16 AWG Foil Drain (18) 105°C 9.6 mm OD Cable #RF51219-*M†**		1. WH 2. BK 3. Drain 4. RD 5. OG 6. BU 7. GN	
	P-WKM 71-329-*M	**ITC/PLTC PVC Blue 6x16 AWG Foil Drain (18) 105°C 9.6 mm OD Cable #RF51329-*M†**			

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-WKM.."; "P-WKV.." indicates 316 stainless steel.

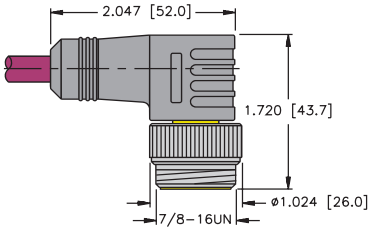
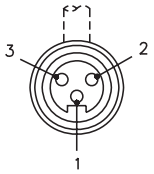
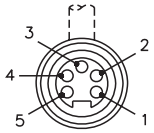
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI-ANGLE + LOCK-MINI-B&C-ANGLE) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Drop Cordsets, Additional Analog or Discrete Control Circuits

- **Right Angle Male Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A (use as ITC limited to 150 V, 5 A)**

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinouts	
P-WSM .. 	P-WSM 321-880-*M	**ITC/PLTC PVC Yellow 3x18 AWG 105°C 7.2 mm OD Cable #RF50880-*M†**	***Discrete I/O devices in Class I, Division 2 hazardous locations** or unclassified locations.***	1. GN/YE 2. BN 3. BU	
	P-WSM 33-187-*M	**ITC/PLTC PVC Grey 3x18 AWG 105°C 7.2 mm OD Cable #RF51187-*M†**		1. GN 2. BK 3. WH	
	P-WSM 51-108-*M	**ITC/PLTC PVC Plum 4x18 AWG, 1 Shielded Triad with GND Foil/Drain (20) 105°C 8.1 mm OD Cable #RF51108-*M†**	***Discrete or Analog 3-wire circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. GN/YE 4. Drain 5. BK	
	P-WSM 52-972-*M	**ITC/PLTC PVC Grey 5x18 AWG 105°C 7.2 mm OD Cable #RF50972-*M†**	***Discrete I/O Devices in Class I, Division 2 Hazardous Locations** or Unclassified Locations.***	1. BK 2. WH 3. GY 4. BN 5. BU	
	P-WSM 55-099-*M	**ITC/PLTC PVC Plum 4x16 AWG, 1 Shielded Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51099-*M†**	***Discrete or Analog 3-wire circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. WH 2. BK 3. GN 4. RD 5. Drain	
	P-WSM 55-328-*M	**ITC/PLTC PVC Blue 4x16 AWG, 1 Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51328-*M†**			

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-WSM.."; "P-WSV.." indicates 316 stainless steel.

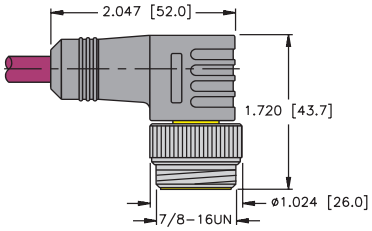
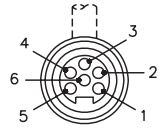
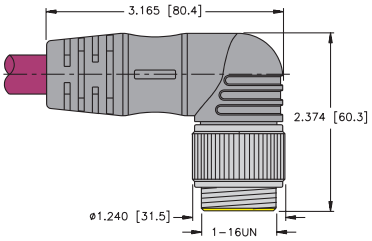
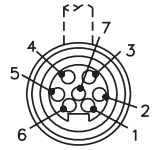
† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI-ANGLE) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Drop Cordsets, Additional Analog or Discrete Control Circuits

- **Right Angle Male Connectors**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

FM tested to the cable sealing requirements of NEC Article 501-5(E)(2)

Housing Style	Part Number	Cable	Application	Pinouts	
P-WSM .. 	P-WSM 60-025-*M	**ITC/PLTC PVC Plum 5x16 AWG, 1 STP Foil/Drain (18) 105°C 12.5 mm OD Cable #RF51025-*M†**	***Instruments with separate power or signal circuits in Class I, Division 2 hazardous locations** or unclassified locations.***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
	P-WSM 63-030-*M	**ITC/PLTC PVC Yellow 6x16 AWG 105°C 9.6 mm OD Cable #RF51030-*M†**		1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-WSM 63-233-*M	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 6x16 AWG 105°C 11.2 mm OD Cable #RF51233-*M†**		1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-WSM 66-318-*M	**ITC/PLTC PVC Plum 5x18 AWG, 2 STP with GND Foil/Drain (20) 105°C 7.9 mm OD Cable #RF51318-*M†**	***Discrete I/O Devices in Class I, Division 2 Hazardous Locations** or Unclassified Locations.***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
P-WSM .. 	P-WSM 71-219-*M	**ITC/PLTC PVC Plum 6x16 AWG Foil Drain (18) 105°C 9.6 mm OD Cable #RF51219-*M†**		1. WH 2. BK 3. Drain 4. RD 5. OG 6. BU 7. GN	
	P-WSM 71-329-*M	**ITC/PLTC PVC Blue 6x16 AWG Foil Drain (18) 105°C 9.6 mm OD Cable #RF51329-*M†**			

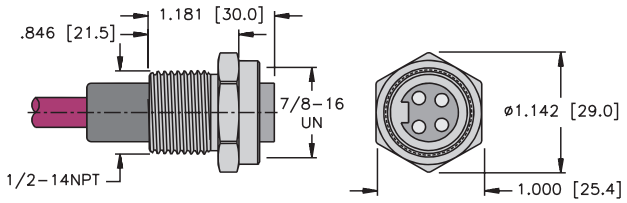
* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "P-WSM.."; "P-WSV.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.

** Use with ***lokfast minifast*** guards (Part Number: LOCK-MINI-ANGLE + LOCK-MINI-B&C-ANGLE) in Class I, Division 2 applications.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

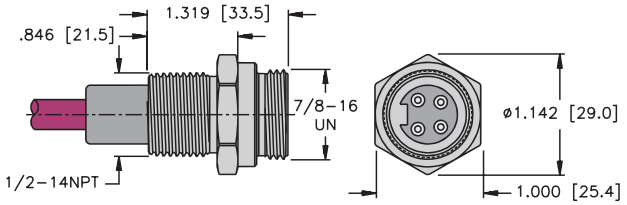
minifast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

1



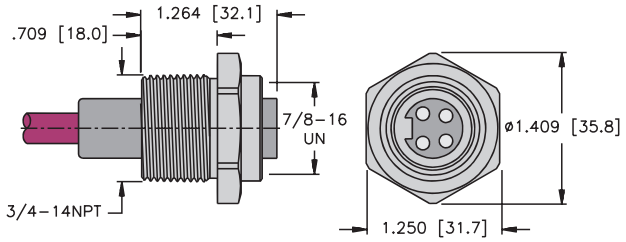
P-RKF .. 14.5/NPT **Pages C35 - C36**

2



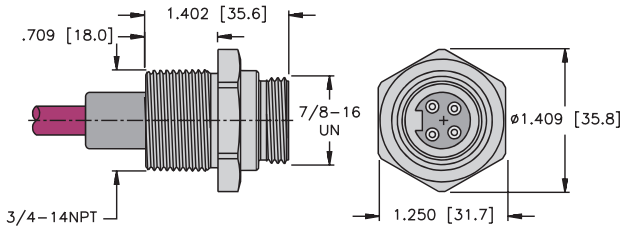
P-RSF .. 14.5/NPT **Pages C37 - C38**

3



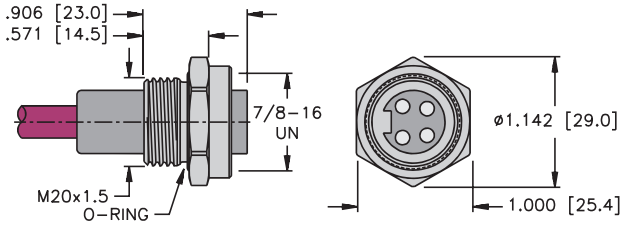
P-RKF .. 14.75/NPT **Pages C39 - C40**

4



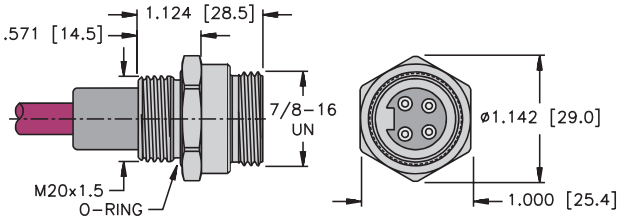
P-RSF .. 14.75/NPT **Pages C41 - C42**

5



P-RKF .. M20 **Pages C43 - C44**

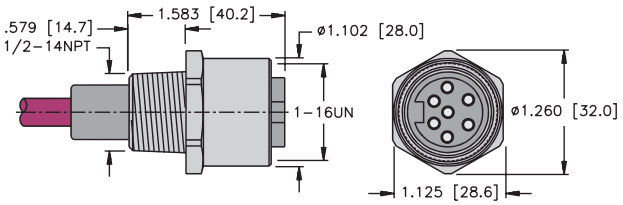
6



P-RSF .. M20 **Pages C45 - C46**

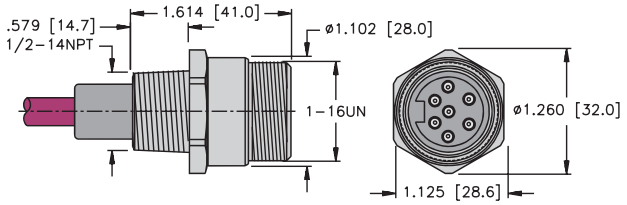
minifast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

7



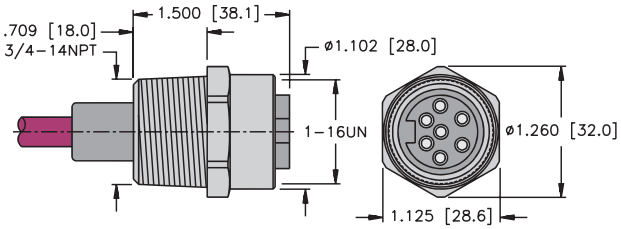
"B" Style P-RKF .. 14.5/NPT Page C36

8



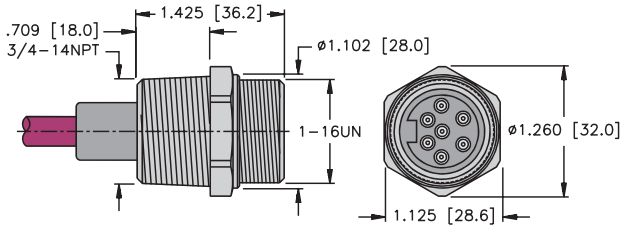
"B" Style P-RSF .. 14.5/NPT Page C38

9



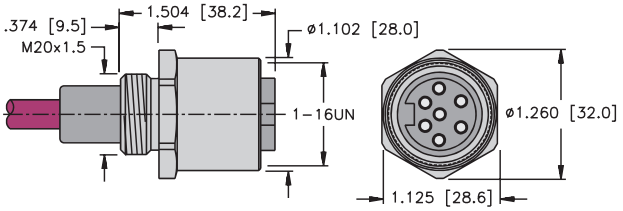
"B" Style P-RKF .. 14.75/NPT Page C40

10



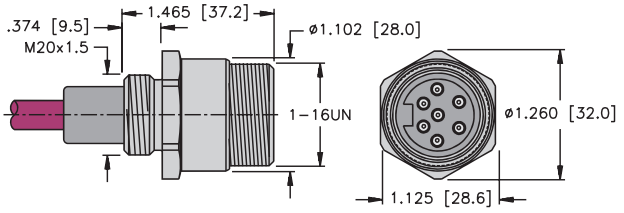
"B" Style P-RSF .. 14.75/NPT Page C42

11



"B" Style P-RKF .. M20 Page C44

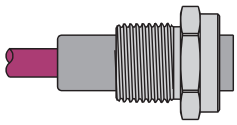
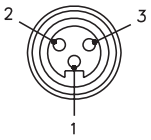
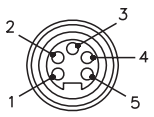
12



"B" Style P-RSF .. M20 Page C46

minifast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **IEC IP 67 Protection**
- **300 V, 9 A (use as ITC limited to 150 V, 5 A)**

Housing Style	Part Number	Cable	Application	Pinouts	
1 	P-RKF 321-880-*/14.5/NPT	**ITC/PLTC PVC Yellow 3x18 AWG 105°C 7.2 mm OD Cable #RF50880-*M†**	***Discrete I/O devices in Class I, Division 2 hazardous locations** or **unclassified locations. 1/2-14NPT Conduit Entry Thread.***	1. GN/YE 2. BN 3. BU	
	P-RKF 33-187-*/14.5/NPT	**ITC/PLTC PVC Grey 3x18 AWG 105°C 7.2 mm OD Cable #RF51187-*M†**		1. GN 2. BK 3. WH	
	P-RKF 51-108-*/14.5/NPT	**ITC/PLTC PVC Plum 4x18 AWG, 1 Shielded Triad with GND Foil/Drain (20) 105°C 8.1 mm OD Cable #RF51108-*M†**	***Discrete or analog 3-wire circuits in Class I, Division 2 hazardous locations or unclassified locations. 1/2-14NPT Conduit Entry Thread.***	1. BU 2. BN 3. GN/YE 4. Drain 5. BK	
	P-RKF 52-972-*/14.5/NPT	**ITC/PLTC PVC Grey 5x18 AWG 105°C 7.2 mm OD Cable #RF50972-*M†**	***Discrete I/O Devices in Class I, Division 2 Hazardous Locations** or **Unclassified Locations.***	1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RKF 55-099-*/14.5/NPT	**ITC/PLTC PVC Plum 4x16 AWG, 1 Shielded Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51099-*M†**	***Discrete or analog 3-wire circuits in Class I, Division 2 hazardous locations or unclassified locations. 1/2-14NPT Conduit Entry Thread.***	1. WH 2. BK 3. GN 4. RD 5. Drain	
	P-RKF 55-328-*/14.5/NPT	**ITC/PLTC PVC Blue 4x16 AWG, 1 Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51328-*M†**		1. WH 2. BK 3. GN 4. RD 5. Drain	

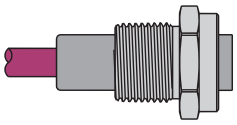
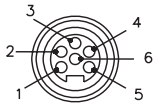
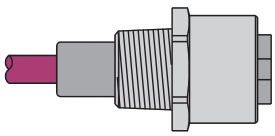
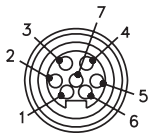
See page C33 for dimensional drawings.

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKM.."; "P-RKV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

Housing Style	Part Number	Cable	Application	Pinout	
1 	P-RKF 60-025-*/14.5/NPT	**ITC/PLTC PVC Plum 5x16 AWG, 1 STP plus 1 Triad Foil/Drain (18) 105°C 12.5 mm OD Cable #RF51025-*M†**	***Instruments with separate power and signal circuits in Class I, Division 2 hazardous locations or unclassified locations. 1/2-14NPT Conduit Entry Thread.***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
	P-RKF 63-030-*/14.5/NPT	**ITC/PLTC PVC Yellow 6x16 AWG 105°C 9.6 mm OD Cable #RF51030-*M†**	***Discrete I/O devices in Class I, Division 2 hazardous locations or unclassified locations. 1/2-14NPT Conduit Entry Thread.***	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RKF 63-233-*/14.5/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 6x16 AWG 105°C 11.2 mm OD Cable #RF51233-*M†**		1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RKF 66-318-*/14.5/NPT	**ITC/PLTC PVC Plum 5x18 AWG, 2 STP with GND Foil/Drain (20) 105°C 7.9 mm OD Cable #RF51318-*M†**		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
7 	P-RKF 71-219-*/14.5/NPT	**ITC/PLTC PVC Plum 6x16 AWG Foil/Drain (18) 105°C 9.6 mm OD Cable #RF51219-*M†**		1. WH 2. BK 3. Drain 4. RD 5. OG 6. BU 7. GN	
	P-RKF 71-329-*/14.5/NPT	**ITC/PLTC PVC Blue 6x16 AWG Foil Drain (18) 105°C 9.6 mm OD Cable #RF51329-*M†**			

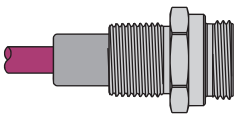
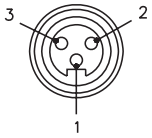
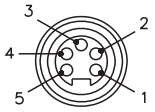
See page C33 - C34 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting; 7-pin recommends 7/8" (22.0 mm).

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

- **Male Receptacles**
- **IEC IP 67 Protection**
- **300 V, 9 A (use as ITC limited to 150 V, 5 A)**

Housing Style	Part Number	Cable	Application	Pinout	
2 	P-RSF 321-880-*/14.5/NPT	**ITC/PLTC PVC Yellow 3x18 AWG 105°C 7.2 mm OD Cable #RF50880-*M†**	***Discrete I/O devices in Class I, Division 2 hazardous locations or unclassified locations. 1/2-14NPT Conduit Entry Thread.***	1. GN/YE 2. BN 3. BU	
	P-RSF 33-187-*/14.5/NPT	**ITC/PLTC PVC Grey 3x18 AWG 105°C 7.2 mm OD Cable #RF51187-*M†**		1. GN 2. BK 3. WH	
	P-RSF 51-108-*/14.5/NPT	**ITC/PLTC PVC Plum 4x18 AWG, 1 Shielded Triad with GND Foil/Drain (20) 105°C 8.1 mm OD Cable #RF51108-*M†**	***Discrete or analog 3-wire circuits in Class I, Division 2 hazardous locations or unclassified locations. 1/2-14NPT Conduit Entry Thread.***	1. BU 2. BN 3. GN/YE 4. Drain 5. BK	
	P-RSF 52-972-*/14.5/NPT	**ITC/PLTC PVC Grey 5x18 AWG 105°C 7.2 mm OD Cable #RF50972-*M†**	***Discrete I/O Devices in Class I, Division 2 Hazardous Locations or Unclassified Locations.***	1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RSF 55-099-*/14.5/NPT	**ITC/PLTC PVC Plum 4x16 AWG, 1 Shielded Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51099-*M†**	***Discrete or analog 3-wire circuits in Class I, Division 2 hazardous locations or unclassified locations. 1/2-14NPT Conduit Entry Thread.***	1. WH 2. BK 3. GN 4. RD 5. Drain	
	P-RSF 55-328-*/14.5/NPT	**ITC/PLTC PVC Blue 4x16 AWG, 1 Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51328-*M†**			

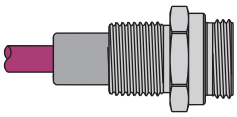
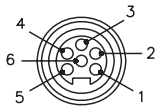
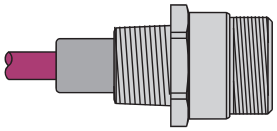
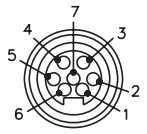
See page C33 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

- Male Receptacles
- IEC IP 67 Protection
- 300 V, 9 A
  (use as ITC limited to 150 V, 5 A)

Housing Style	Part Number	Cable	Application	Pinout	
2 	P-RSF 60-025-*/14.5/NPT	ITC/PLTC PVC Plum 5x16 AWG, 1 STP plus 1 Triad Foil/Drain (18) 105°C 12.5 mm OD Cable #RF51025-*M†	*Instruments with separate power and signal circuits in Class I, Division 2 hazardous locations or unclassified locations.* *1/2-14NPT Conduit Entry Thread.*	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
	P-RSF 63-030-*/14.5/NPT	ITC/PLTC PVC Yellow 6x16 AWG 105°C 9.6 mm OD Cable #RF51030-*M†		1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RSF 63-233-*/14.5/NPT	ITC-Exposed Run/Direct Burial/PLTC PVC Plum 6x16 AWG 105°C 11.2 mm OD Cable #RF51233-*M†		1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RSF 66-318-*/14.5/NPT	ITC/PLTC PVC Plum 5x18 AWG, 2 STP with GND Foil/Drain (20) 105°C 7.9 mm OD Cable #RF51318-*M†	*Discrete I/O devices in Class I, Division 2 hazardous locations or unclassified locations.* *1/2-14NPT Conduit Entry Thread.*	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
8 	P-RSF 71-219-*/14.5/NPT	ITC/PLTC PVC Plum 6x16 AWG Foil/Drain (18) 105°C 9.6 mm OD Cable #RF51219-*M†		1. WH 2. BK 3. Drain 4. RD 5. OG 6. BU 7. GN	
	P-RSF 71-329-*/14.5/NPT	ITC/PLTC PVC Blue 6x16 AWG Foil Drain (18) 105°C 9.6 mm OD Cable #RF51329-*M†			

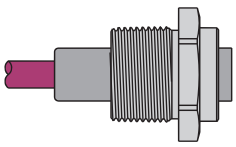
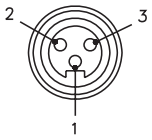
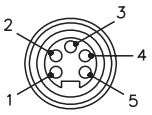
See page C33 - C34 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting; 7-pin recommends 7/8" (22.0 mm).

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

Housing Style	Part Number	Cable	Application	Pinout	
3 	P-RKF 321-880-*/14.75/NPT	**ITC/PLTC PVC Yellow 3x18 AWG 105°C 7.2 mm OD Cable #RF50880-*M†**	***Discrete I/O devices in Class I, Division 2 hazardous locations or unclassified locations. 3/4-14NPT Conduit Entry Thread.***	1. GN/YE 2. BN 3. BU	
	P-RKF 33-187-*/14.75/NPT	**ITC/PLTC PVC Grey 3x18 AWG 105°C 7.2 mm OD Cable #RF51187-*M†**		1. GN 2. BK 3. WH	
	P-RKF 51-108-*/14.75/NPT	**ITC/PLTC PVC Plum 4x18 AWG, 1 Shielded Triad with GND Foil/Drain (20) 105°C 8.1 mm OD Cable #RF51108-*M†**	***Discrete or analog 3-wire circuits in Class I, Division 2 hazardous locations or unclassified locations. 3/4-14NPT Conduit Entry Thread.***	1. BU 2. BN 3. GN/YE 4. Drain 5. BK	
	P-RKF 52-972-*/14.75/NPT	**ITC/PLTC PVC Grey 5x18 AWG 105°C 7.2 mm OD Cable #RF50972-*M†**	***Discrete I/O Devices in Class I, Division 2 Hazardous Locations or Unclassified Locations.***	1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RKF 55-099-*/14.75/NPT	**ITC/PLTC PVC Plum 4x16 AWG, 1 Shielded Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51099-*M†**	***Discrete or analog 3-wire circuits in Class I, Division 2 hazardous locations or unclassified locations. 3/4-14NPT Conduit Entry Thread.***	1. WH 2. BK 3. GN 4. RD 5. Drain	
	P-RKF 55-328-*/14.75/NPT	**ITC/PLTC PVC Blue 4x16 AWG, 1 Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51328-*M†**			

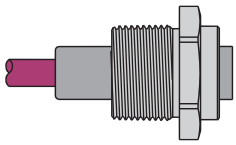
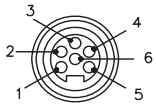
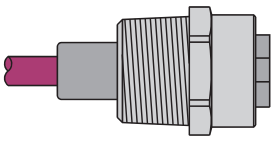
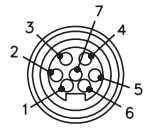
See page C33 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 1-1/16" (27.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast ® Receptacles with Cable, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

Housing Style	Part Number	Cable	Application	Pinout	
3 	P-RKF 60-025-*/14.75/NPT	**ITC/PLTC PVC Plum 5x16 AWG, 1 STP plus 1 Triad Foil/Drain (18) 105°C 12.5 mm OD Cable #RF51025-*M†**	***Instruments with separate power and signal circuits in Class I, Division 2 hazardous locations or unclassified locations. 3/4-14NPT Conduit Entry Thread.***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
	P-RKF 63-030-*/14.75/NPT	**ITC/PLTC PVC Yellow 6x16 AWG 105°C 9.6 mm OD Cable #RF51030-*M†**		1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RKF 63-233-*/14.75/NPT	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 6x16 AWG 105°C 11.2 mm OD Cable #RF51233-*M†**		1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RKF 66-318-*/14.75/NPT	**ITC/PLTC PVC Plum 5x18 AWG, 2 STP with GND Foil/Drain (20) 105°C 7.9 mm OD Cable #RF51318-*M†**		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
9 	P-RKF 71-219-*/14.75/NPT	**ITC/PLTC PVC Plum 6x16 AWG Foil/Drain (18) 105°C 9.6 mm OD Cable #RF51219-*M†**		1. WH 2. BK 3. Drain 4. RD 5. OG 6. BU 7. GN	
	P-RKF 71-329-*/14.75/NPT	**ITC/PLTC PVC Blue 6x16 AWG Foil Drain (18) 105°C 9.6 mm OD Cable #RF51329-*M†**			

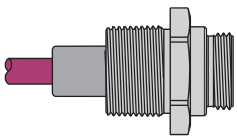
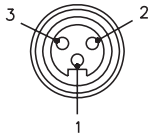
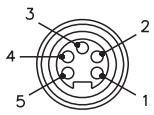
See page C33 - C34 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 1-1/16" (27.0 mm) hole for panel mounting; 7-pin recommends 1-1/16" (27.0 mm).

† See Section F for ***reelfast*** ® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

- Male Receptacles
- IEC IP 67 Protection
- 300 V, 9 A
  (use as ITC limited to 150 V, 5 A)

Housing Style	Part Number	Cable	Application	Pinout	
4 	P-RSF 321-880-*/14.75/NPT	ITC/PLTC PVC Yellow 3x18 AWG 105°C 7.2 mm OD Cable #RF50880-*M†	*Discrete I/O devices in Class I, Division 2 hazardous locations** or unclassified locations.* *3/4-14NPT Conduit Entry Thread.*	1. GN/YE 2. BN 3. BU	
	P-RSF 33-187-*/14.75/NPT	ITC/PLTC PVC Grey 3x18 AWG 105°C 7.2 mm OD Cable #RF51187-*M†		1. GN 2. BK 3. WH	
	P-RSF 51-108-*/14.75/NPT	ITC/PLTC PVC Plum 4x18 AWG, 1 Shielded Triad with GND Foil/Drain (20) 105°C 8.1 mm OD Cable #RF51108-*M†	*Discrete or analog 3-wire circuits in Class I, Division 2 hazardous locations or unclassified locations.* *3/4-14NPT Conduit Entry Thread.*	1. BU 2. BN 3. GN/YE 4. Drain 5. BK	
	P-RSF 52-972-*/14.75/NPT	ITC/PLTC PVC Grey 5x18 AWG 105°C 7.2 mm OD Cable #RF50972-*M†	*Discrete I/O Devices in Class I, Division 2 Hazardous Locations** or Unclassified Locations.*	1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RSF 55-099-*/14.75/NPT	ITC/PLTC PVC Plum 4x16 AWG, 1 Shielded Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51099-*M†	*Discrete or analog 3-wire circuits in Class I, Division 2 hazardous locations or unclassified locations.* *3/4-14NPT Conduit Entry Thread.*	1. WH 2. BK 3. GN 4. RD 5. Drain	
	P-RSF 55-328-*/14.75/NPT	ITC/PLTC PVC Blue 4x16 AWG, 1 Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51328-*M†			

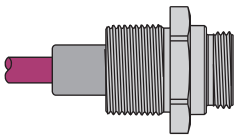
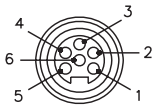
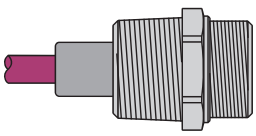
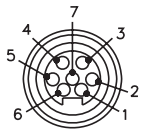
See page C33 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 1-1/16" (27.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

- Male Receptacles
- IEC IP 67 Protection
- 300 V, 9 A
  (use as ITC limited to 150 V, 5 A)

Housing Style	Part Number	Cable	Application	Pinout	
4 	P-RSF 60-025-*/14.75/NPT	ITC/PLTC PVC Plum 5x16 AWG, 1 STP plus 1 Triad Foil/Drain (18) 105°C 12.5 mm OD Cable #RF51025-*M†	*Instruments with separate power and signal circuits in Class I, Division 2 hazardous locations or unclassified locations. 3/4-14NPT Conduit Entry Thread.*	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
	P-RSF 63-030-*/14.75/NPT	ITC/PLTC PVC Yellow 6x16 AWG 105°C 9.6 mm OD Cable #RF51030-*M†	*Discrete I/O devices in Class I, Division 2 hazardous locations or unclassified locations. 3/4-14NPT Conduit Entry Thread.*	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RSF 63-233-*/14.75/NPT	ITC-Exposed Run/Direct Burial/PLTC PVC Plum 6x16 AWG 105°C 11.2 mm OD Cable #RF51233-*M†		1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RSF 66-318-*/14.75/NPT	ITC/PLTC PVC Plum 5x18 AWG, 2 STP with GND Foil/Drain (20) 105°C 7.9 mm OD Cable #RF51318-*M†		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
10 	P-RSF 71-219-*/14.75/NPT	ITC/PLTC PVC Plum 6x16 AWG Foil/Drain (18) 105°C 9.6 mm OD Cable #RF51219-*M†		1. WH 2. BK 3. Drain 4. RD 5. OG 6. BU 7. GN	
	P-RSF 71-329-*/14.75/NPT	ITC/PLTC PVC Blue 6x16 AWG Foil Drain (18) 105°C 9.6 mm OD Cable #RF51329-*M†			

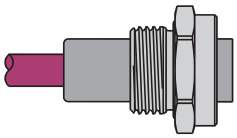
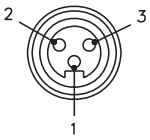
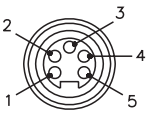
See page C33 - C34 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 1-1/16" (27.0 mm) hole for panel mounting; 7-pin recommends 1-1/16" (27.0 mm).

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **IEC IP 67 Protection**
- **300 V, 9 A (use as ITC limited to 150 V, 5 A)**

Housing Style	Part Number	Cable	Application	Pinout	
5 	P-RKF 321-880-*/M20	**ITC/PLTC PVC Yellow 3x18 AWG 105°C 7.2 mm OD Cable #RF50880-*M†**	***Discrete I/O devices in Class I, Division 2 hazardous locations or unclassified locations. M20 Conduit Entry Thread.***	1. GN/YE 2. BN 3. BU	
	P-RKF 33-187-*/M20	**ITC/PLTC PVC Grey 3x18 AWG 105°C 7.2 mm OD Cable #RF51187-*M†**		1. GN 2. BK 3. WH	
	P-RKF 51-108-*/M20	**ITC/PLTC PVC Plum 4x18 AWG, 1 Shielded Triad with GND Foil/Drain (20) 105°C 8.1 mm OD Cable #RF51108-*M†**	***Discrete or analog 3-wire circuits in Class I, Division 2 hazardous locations or unclassified locations. M20 Conduit Entry Thread.***	1. BU 2. BN 3. GN/YE 4. Drain 5. BK	
	P-RKF 52-972-*/M20	**ITC/PLTC PVC Grey 5x18 AWG 105°C 7.2 mm OD Cable #RF50972-*M†**	***Discrete I/O Devices in Class I, Division 2 Hazardous Locations or Unclassified Locations.***	1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RKF 55-099-*/M20	**ITC/PLTC PVC Plum 4x16 AWG, 1 Shielded Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51099-*M†**	***Discrete or analog 3-wire circuits in Class I, Division 2 hazardous locations or unclassified locations. M20 Conduit Entry Thread.***	1. WH 2. BK 3. GN 4. RD 5. Drain	
	P-RKF 55-328-*/M20	**ITC/PLTC PVC Blue 4x16 AWG, 1 Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51328-*M†**			

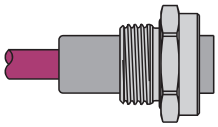
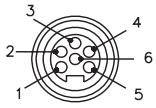
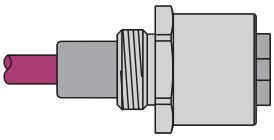
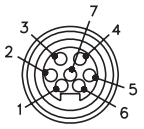
See page C33 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 1-1/16" (27.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast ® Receptacles with Cable, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **IEC IP 67 Protection**
- **300 V, 9 A**
  (use as ITC limited to 150 V, 5 A)

Housing Style	Part Number	Cable	Application	Pinout	
5 	P-RKF 60-025-*/M20	**ITC/PLTC PVC Plum 5x16 AWG, 1 STP plus 1 Triad Foil/Drain (18) 105°C 12.5 mm OD Cable #RF51025-*M†**	***Instruments with separate power and signal circuits in Class I, Division 2 hazardous locations or unclassified locations. M20 Conduit Entry Thread.***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
	P-RKF 63-030-*/M20	**ITC/PLTC PVC Yellow 6x16 AWG 105°C 9.6 mm OD Cable #RF51030-*M†**	***Discrete I/O devices in Class I, Division 2 hazardous locations or unclassified locations. M20 Conduit Entry Thread.***	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RKF 63-233-*/M20	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 6x16 AWG 105°C 11.2 mm OD Cable #RF51233-*M†**		1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RKF 66-318-*/M20	**ITC/PLTC PVC Plum 5x18 AWG, 2 STP with GND Foil/Drain (20) 105°C 7.9 mm OD Cable #RF51318-*M†**		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
11 	P-RKF 71-219-*/M20	**ITC/PLTC PVC Plum 6x16 AWG Foil/Drain (18) 105°C 9.6 mm OD Cable #RF51219-*M†**		1. WH 2. BK 3. Drain 4. RD 5. OG 6. BU 7. GN	
	P-RKF 71-329-*/M20	**ITC/PLTC PVC Blue 6x16 AWG Foil Drain (18) 105°C 9.6 mm OD Cable #RF51329-*M†**			

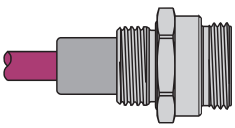
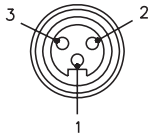
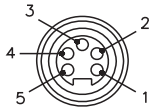
See page C33 - C34 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.

† See Section F for ***reelfast*** ® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

- Male Receptacles
- IEC IP 67 Protection
- 300 V, 9 A
  (use as ITC limited to 150 V, 5 A)

Housing Style	Part Number	Cable	Application	Pinout	
6 	P-RSF 321-880-*/M20	**ITC/PLTC PVC Yellow 3x18 AWG 105°C 7.2 mm OD Cable #RF50880-*M†**	***Discrete I/O devices in Class I, Division 2 hazardous locations** or unclassified locations.***	1. GN/YE 2. BN 3. BU	
	P-RSF 33-187-*/M20	**ITC/PLTC PVC Grey 3x18 AWG 105°C 7.2 mm OD Cable #RF51187-*M†**		1. GN 2. BK 3. WH	
	P-RSF 51-108-*/M20	**ITC/PLTC PVC Plum 4x18 AWG, 1 Shielded Triad with GND Foil/Drain (20) 105°C 8.1 mm OD Cable #RF51108-*M†**	***Discrete or analog 3-wire circuits in Class I, Division 2 hazardous locations or unclassified locations. M20 Conduit Entry Thread.***	1. BU 2. BN 3. GN/YE 4. Drain 5. BK	
	P-RSF 52-972-*/M20	**ITC/PLTC PVC Grey 5x18 AWG 105°C 7.2 mm OD Cable #RF50972-*M†**	***Discrete I/O Devices in Class I, Division 2 Hazardous Locations** or Unclassified Locations.***	1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RSF 55-099-*/M20	**ITC/PLTC PVC Plum 4x16 AWG, 1 Shielded Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51099-*M†**	***Discrete or analog 3-wire circuits in Class I, Division 2 hazardous locations or unclassified locations. M20 Conduit Entry Thread.***	1. WH 2. BK 3. GN 4. RD 5. Drain	
	P-RSF 55-328-*/M20	**ITC/PLTC PVC Blue 4x16 AWG, 1 Triad with GND Foil/Drain (18) 105°C 10.4 mm OD Cable #RF51328-*M†**			

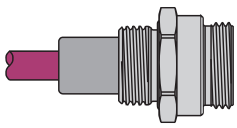
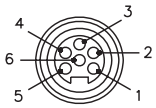
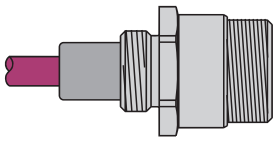
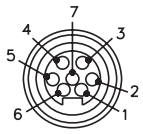
See page C33 for dimensional drawings.

* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Cable, Additional Analog or Discrete Control Circuits

- Male Receptacles
- IEC IP 67 Protection
- 300 V, 9 A
  (use as ITC limited to 150 V, 5 A)

Housing Style	Part Number	Cable	Application	Pinout	
6 	P-RSF 60-025-*/M20	**ITC/PLTC PVC Plum 5x16 AWG, 1 STP plus 1 Triad Foil/Drain (18) 105°C 12.5 mm OD Cable #RF51025-*M†**	***Instruments with separate power and signal circuits in Class I, Division 2 hazardous locations or unclassified locations. M20 Conduit Entry Thread.***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
	P-RSF 63-030-*/M20	**ITC/PLTC PVC Yellow 6x16 AWG 105°C 9.6 mm OD Cable #RF51030-*M†**		1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RSF 63-233-*/M20	**ITC-Exposed Run/Direct Burial/PLTC PVC Plum 6x16 AWG 105°C 11.2 mm OD Cable #RF51233-*M†**	***Discrete I/O devices in Class I, Division 2 hazardous locations or unclassified locations. M20 Conduit Entry Thread.***	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RSF 66-318-*/M20	**ITC/PLTC PVC Plum 5x18 AWG, 2 STP with GND Foil/Drain (20) 105°C 7.9 mm OD Cable #RF51318-*M†**		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. Drain	
12 	P-RSF 71-219-*/M20	**ITC/PLTC PVC Plum 6x16 AWG Foil/Drain (18) 105°C 9.6 mm OD Cable #RF51219-*M†**		1. WH 2. BK 3. Drain 4. RD 5. OG 6. BU 7. GN	
	P-RSF 71-329-*/M20	**ITC/PLTC PVC Blue 6x16 AWG Foil Drain (18) 105°C 9.6 mm OD Cable #RF51329-*M†**			

See page C33 - C34 for dimensional drawings.

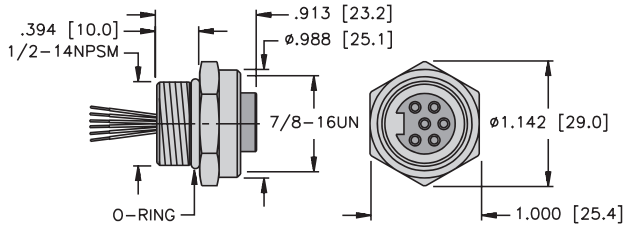
* Length in meters. Standard cable length is 0.5 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.

† See Section F for ***reelfast***® cable information.
Note: See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) for guidance on installation in hazardous locations.

Notes:

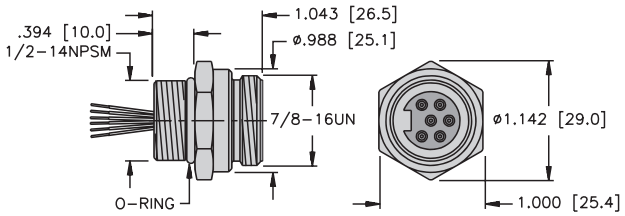
minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

1



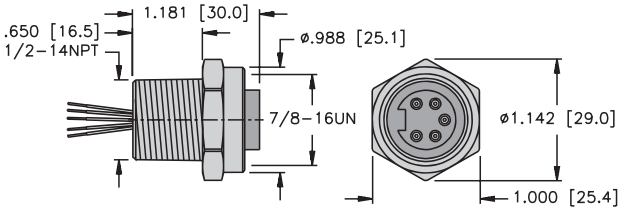
P-RKF .. **Page C51**

2



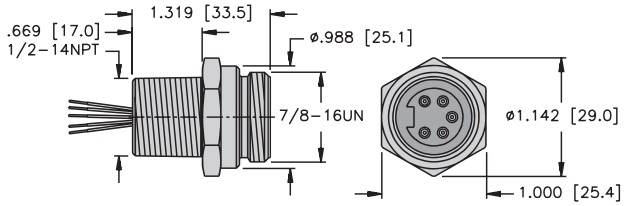
P-RSF .. **Page C52**

3



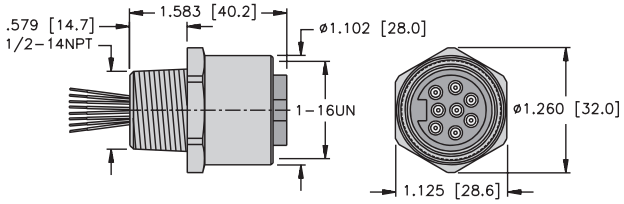
"A" P-RKF .. 14.5/NPT **Page C53**

4



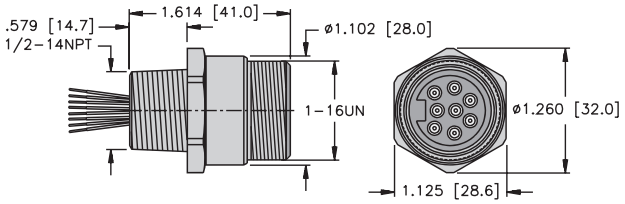
"A" P-RSF .. 14.5/NPT **Page C55**

5



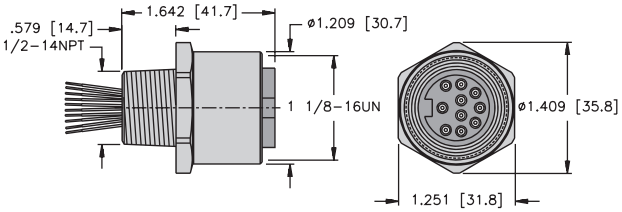
"B" P-RKF .. 14.5/NPT **Page C54**

6



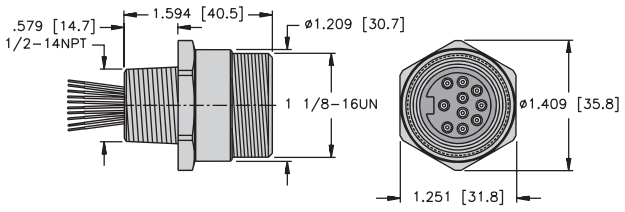
"B" P-RSF .. 14.5/NPT **Page C56**

7



"C" P-RKF .. 14.5/NPT **Page C54**

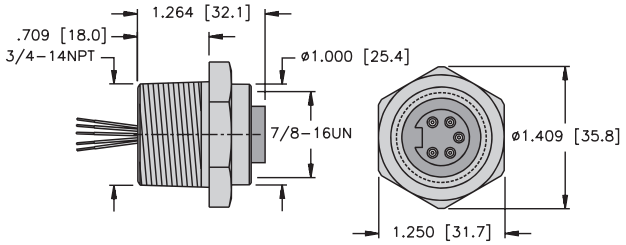
8



"C" P-RSF .. 14.5/NPT **Page C56**

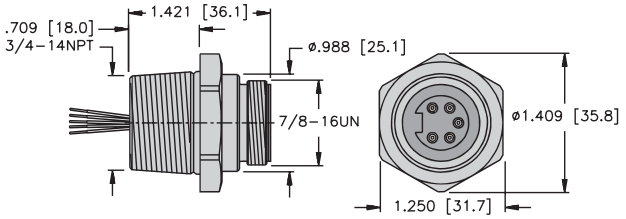
minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

9



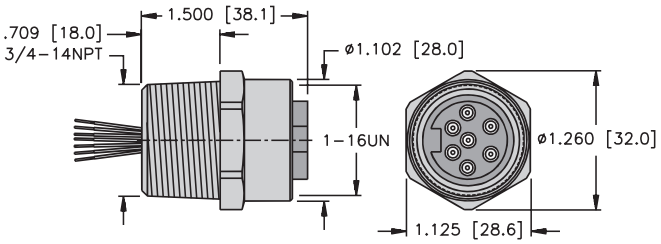
"A" P-RKF .. 14.75/NPT **Page C57**

10



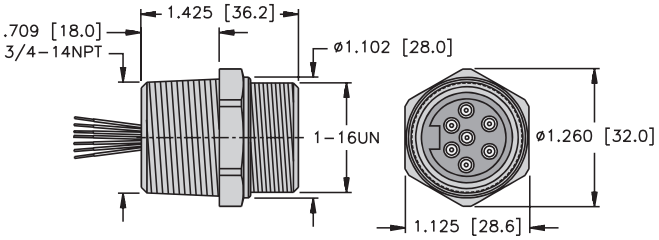
"A" P-RSF .. 14.75/NPT **Page C59**

11



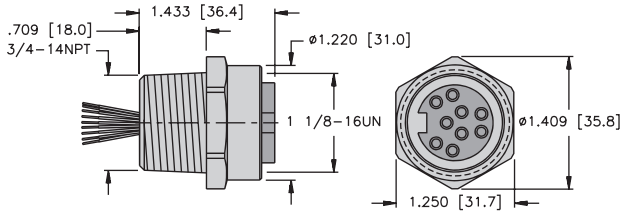
"B" P-RKF .. 14.75/NPT **Page C58**

12



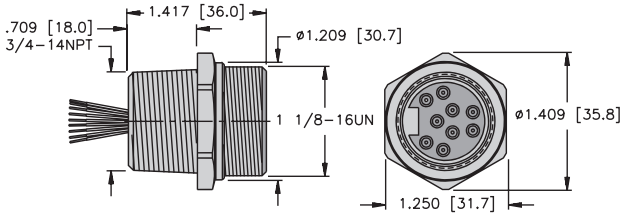
"B" P-RSF .. 14.75/NPT **Page C60**

13



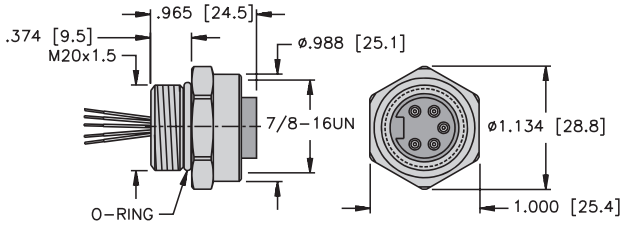
"C" P-RKF .. 14.75/NPT **Page C58**

14



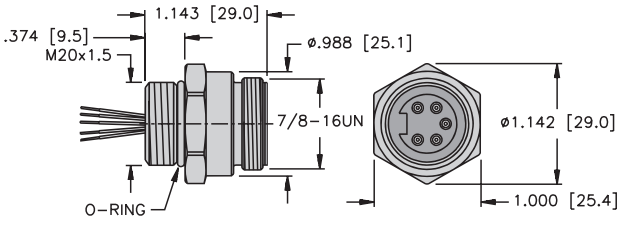
"C" P-RSF .. 14.75/NPT **Page C60**

15



"A" P-RKF .. M20 **Page C61**

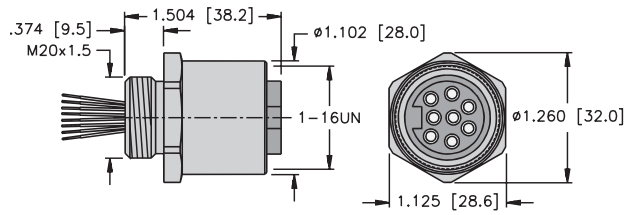
16



"A" P-RSF .. M20 **Page C63**

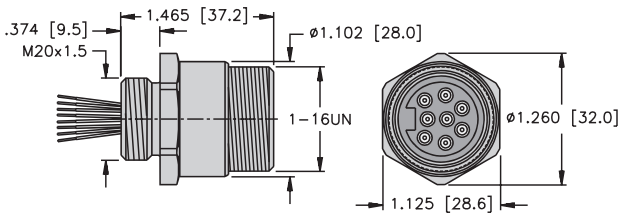
minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

17



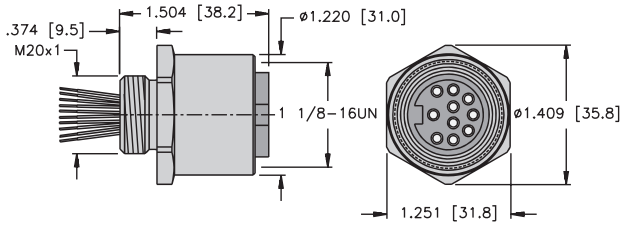
"B" P-RKF .. M20 — Page C62

18



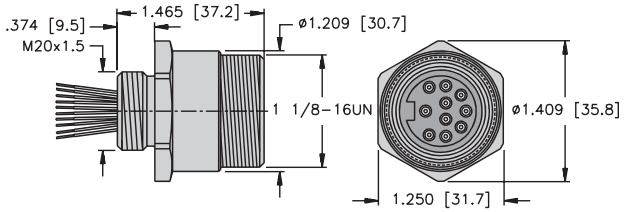
"B" P-RSF .. M20 — Page C64

19



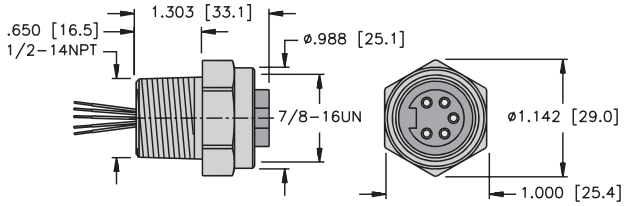
"C" P-RKF .. M20 — Page C62

20



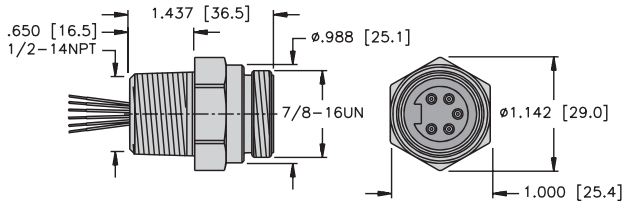
"C" P-RSF .. M20 — Page C64

21



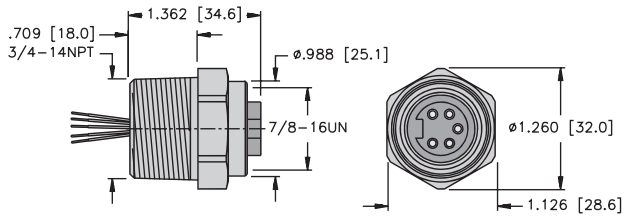
"A" P-RKF .. EX-14.5/NPT — Pages C65 - C66

22



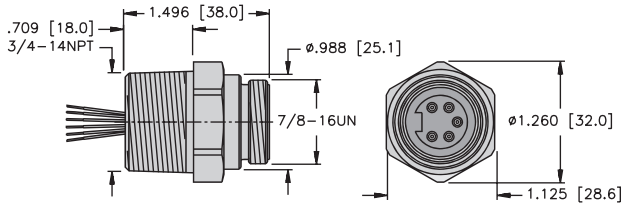
"A" P-RSF .. EX-14.5/NPT — Pages C67 - C68

23



"A" P-RKF .. EX-14.75/NPT — Pages C69 - C70

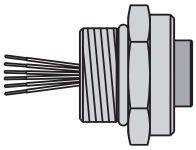
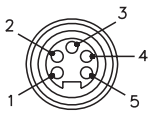
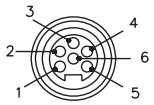
24



"A" P-RSF .. EX-14.75/NPT — Pages C71 - C72

minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

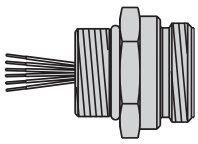
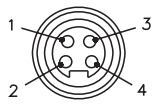
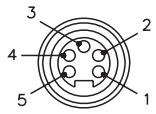
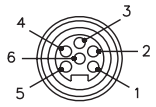
Housing Style	Part Number	Lead Specs	Features	Pinout	
1 	P-RKF 442-*	**UL, CSA 4x18 AWG 105°C 600 V, 9 A**	***1/2-14NPSM Threads***	1. BK 2. WH 3. RD 4. GN	
	P-RKF 45-*	**UL, CSA 3x16 AWG 105°C 600 V, 9 A**		1. WH 2. BK 3. N/C 4. GN	
	P-RKF 52-*	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RKF 60D-*	**UL, CSA 6x16 AWG 105°C 600 V, 9 A**	***1/2-14NPSM Threads, Drain Wire***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. GY	
	P-RKF 63-*		***1/2-14NPSM Threads***	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	

See page C48 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

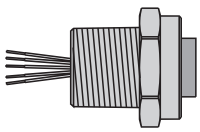
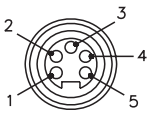
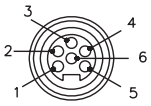
Housing Style	Part Number	Lead Specs	Features	Pinout	
2 	P-RSF 442-*	**UL, CSA 4x18 AWG 105°C 600 V, 9 A**	***1/2-14NPSM Threads***	1. BK 2. WH 3. RD 4. GN	
	P-RSF 45-*	**UL, CSA 3x16 AWG 105°C 600 V, 9 A**		1. WH 2. BK 3. N/C 4. GN	
	P-RSF 52-*	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RSF 60D-*	**UL, CSA 6x16 AWG 105°C 600 V, 9 A**	***1/2-14NPSM Threads, Drain Wire***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. GY	
	P-RSF 63-*		***1/2-14NPSM Threads***	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	

See page C48 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

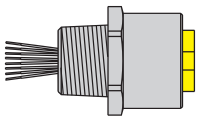
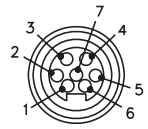
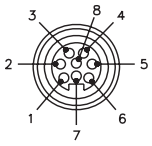
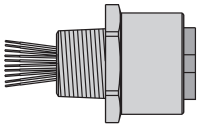
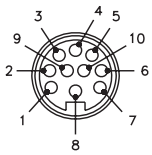
Housing Style	Part Number	Lead Specs	Features	Pinout	
3 	P-RKF 44-*/14.5/NPT	**UL, CSA 4x18 AWG 105°C 600 V, 9 A**	***1/2-14NPT Threads***	1. BU 2. BN 3. WH 4. BK	
	P-RKF 442-*/14.5/NPT			1. BK 2. WH 3. RD 4. GN	
	P-RKF 45-*/14.5/NPT	**UL, CSA 3x16 AWG 105°C 600 V, 9 A**		1. WH 2. BK 3. N/C 4. GN	
	P-RKF 52-*/14.5/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RKF 56-*/14.5/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. BU 3. GN/YE 4. BN 5. WH	
	P-RKF 60-*/14.5/NPT	**UL, CSA 5x16 AWG 105°C 600 V, 9 A**		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. N/C	
	P-RKF 60D-*/14.5/NPT	**UL, CSA 6x16 AWG 105°C 600 V, 9 A**	***1/2-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. GY	
	P-RKF 63-*/14.5/NPT		***1/2-14NPT Threads***	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	

See page C48 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

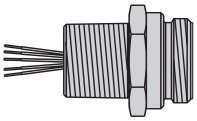
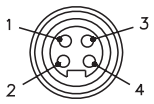
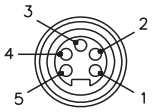
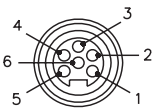
Housing Style	Part Number	Lead Specs	Features	Pinout	
5 	P-RKF 70-*/14.5/NPT	**UL, CSA 7x18 AWG 105°C 600 V, 8 A**	***1/2-14NPT Threads***	1. BU 2. BN 3. GY 4. WH 5. BK 6. GY 7. GN/YE	
	P-RKF 80-*/14.5/NPT	**UL, CSA 8x18 AWG 105°C 600 V, 8 A**		1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN	
7 	P-RKF 100-*/14.5/NPT	**UL, CSA 10x18 AWG 105°C 600 V, 8 A**		1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. GY 8. GN/YE 9. WH/OG 10. OG/WH	

See page C48 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

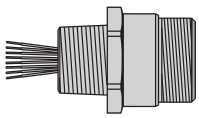
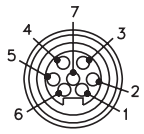
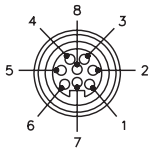
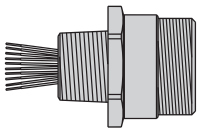
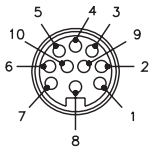
Housing Style	Part Number	Lead Specs	Features	Pinout	
4 	P-RSF 44-*/14.5/NPT	**UL, CSA 4x18 AWG 105°C 600 V, 9 A**	***1/2-14NPT Threads***	1. BU 2. BN 3. WH 4. BK	
	P-RSF 442-*/14.5/NPT			1. BK 2. WH 3. RD 4. GN	
	P-RSF 45-*/14.5/NPT	**UL, CSA 3x16 AWG 105°C 600 V, 9 A**		1. WH 2. BK 3. N/C 4. GN	
	P-RSF 52-*/14.5/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RSF 56-*/14.5/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. BU 3. GN/YE 4. BN 5. WH	
	P-RSF 60-*/14.5/NPT	**UL, CSA 5x16 AWG 105°C 600 V, 9 A**		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. N/C	
	P-RSF 60D-*/14.5/NPT	**UL, CSA 6x16 AWG 105°C 600 V, 9 A**	***1/2-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. GY	
	P-RSF 63-*/14.5/NPT		***1/2-14NPT Threads***	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	

See page C48 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

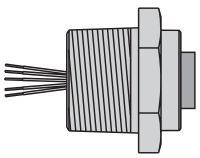
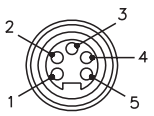
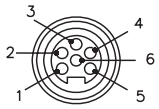
Housing Style	Part Number	Lead Specs	Features	Pinout	
6 	P-RSF 70-*/14.5/NPT	**UL, CSA 7x18 AWG 105°C 600 V, 8 A**	***1/2-14NPT Threads***	1. BU 2. BN 3. GY 4. WH 5. BK 6. GY 7. GN/YE	
	P-RSF 80-*/14.5/NPT	**UL, CSA 8x18 AWG 105°C 600 V, 8 A**		1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN	
8 	P-RSF 100-*/14.5/NPT	**UL, CSA 10x18 AWG 105°C 600 V, 8 A**		1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. GY 8. GN/YE 9. WH/OG 10. OG/WH	

See page C48 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

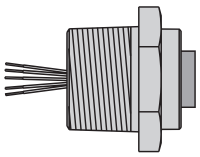
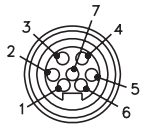
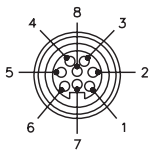
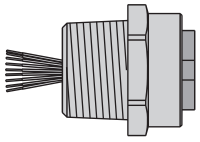
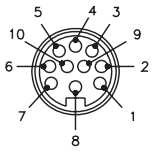
Housing Style	Part Number	Lead Specs	Features	Pinout	
9 	P-RKF 44-*/14.75/NPT	**UL, CSA 4x18 AWG 105°C 600 V, 9 A**	*3/4-14NPT Threads*	1. BU 2. BN 3. WH 4. BK	
	P-RKF 442-*/14.75/NPT			1. BK 2. WH 3. RD 4. GN	
	P-RKF 45-*/14.75/NPT	**UL, CSA 3x16 AWG 105°C 600 V, 9 A**		1. WH 2. BK 3. N/C 4. GN	
	P-RKF 52-*/14.75/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RKF 56-*/14.75/NPT			1. BK 2. BU 3. GN/YE 4. BN 5. WH	
	P-RKF 60-*/14.75/NPT	**UL, CSA 5x16 AWG 105°C 600 V, 9 A**	*3/4-14NPT Threads, Drain Wire*	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. N/C	
	P-RKF 60D-*/14.75/NPT	**UL, CSA 6x16 AWG 105°C 600 V, 9 A**		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. GY	
	P-RKF 63-*/14.75/NPT		*3/4-14NPT Threads*	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	

See page C49 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 1-1/16" (27.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

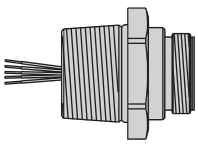
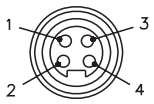
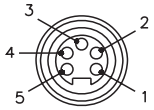
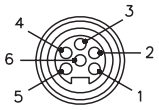
Housing Style	Part Number	Lead Specs	Features	Pinout	
11 	P-RKF 70-*/14.75/NPT	**UL, CSA** **7x18 AWG** **105°C** **600 V, 8 A**	***3/4-14NPT Threads***	1. BU 2. BN 3. GY 4. WH 5. BK 6. GY 7. GN/YE	
	P-RKF 80-*/14.75/NPT	**UL, CSA** **8x18 AWG** **105°C** **600 V, 8 A**		1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN	
13 	P-RKF 100-*/14.75/NPT	**UL, CSA** **10x18 AWG** **105°C** **600 V, 8 A**		1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. GY 8. GN/YE 9. WH/OG 10. OG/WH	

See page C49 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 1-1/16" (27.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

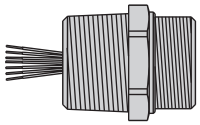
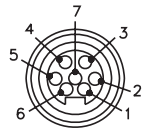
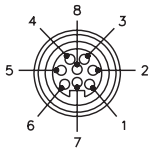
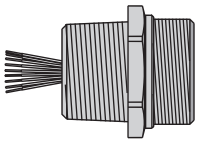
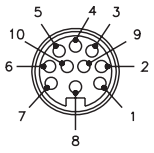
Housing Style	Part Number	Lead Specs	Features	Pinout	
10 	P-RSF 44-*/14.75/NPT	**UL, CSA 4x18 AWG 105°C 600 V, 9 A**	***3/4-14NPT Threads***	1. BU 2. BN 3. WH 4. BK	
	P-RSF 442-*/14.75/NPT			1. BK 2. WH 3. RD 4. GN	
	P-RSF 45-*/14.75/NPT	**UL, CSA 3x16 AWG 105°C 600 V, 9 A**		1. WH 2. BK 3. N/C 4. GN	
	P-RSF 52-*/14.75/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RSF 56-*/14.75/NPT			1. BK 2. BU 3. GN/YE 4. BN 5. WH	
	P-RSF 60-*/14.75/NPT	**UL, CSA 5x16 AWG 105°C 600 V, 9 A**		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. N/C	
	P-RSF 60D-*/14.75/NPT	**UL, CSA 6x16 AWG 105°C 600 V, 8 A**	***3/4-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. GY	
	P-RSF 63-*/14.75/NPT		***3/4-14NPT Threads***	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	

See page C49 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 1-1/16" (27.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

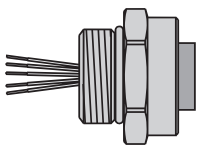
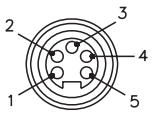
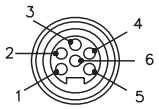
Housing Style	Part Number	Lead Specs	Features	Pinout	
12 	P-RSF 70-*/14.75/NPT	**UL, CSA** **7x18 AWG** **105°C** **600 V, 8 A**	***3/4-14NPT Threads***	1. BU 2. BN 3. GY 4. WH 5. BK 6. GY 7. GN/YE	
	P-RSF 80-*/14.75/NPT	**UL, CSA** **8x18 AWG** **105°C** **600 V, 8 A**		1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN	
14 	P-RSF 100-*/14.75/NPT	**UL, CSA** **10x18 AWG** **105°C** **600 V, 8 A**		1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. GY 8. GN/YE 9. WH/OG 10. OG/WH	

See page C49 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 1-1/16" (27.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

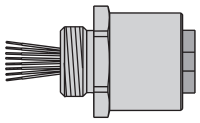
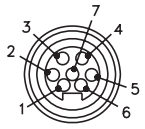
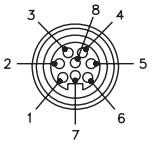
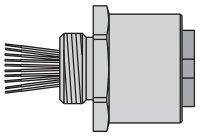
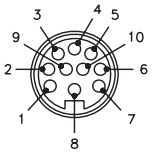
Housing Style	Part Number	Lead Specs	Features	Pinout	
15 	P-RKF 44-*/M20	UL, CSA 4x18 AWG 105°C 600 V, 9 A	*M20 Threads*	1. BU 2. BN 3. WH 4. BK	
	P-RKF 442-*/M20			1. BK 2. WH 3. RD 4. GN	
	P-RKF 45-*/M20	UL, CSA 3x16 AWG 105°C 600 V, 9 A		1. WH 2. BK 3. N/C 4. GN	
	P-RKF 52-*/M20	UL, CSA 5x18 AWG 105°C 600 V, 9 A		1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RKF 56-*/M20	UL, CSA 5x18 AWG 105°C 600 V, 9 A		1. BK 2. BU 3. GN/YE 4. BN 5. WH	
	P-RKF 60-*/M20	UL, CSA 5x16 AWG 105°C 600 V, 9 A		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. N/C	
	P-RKF 60D-*/M20	UL, CSA 6x16 AWG 105°C 600 V, 9 A	*M20 Threads, Drain Wire*	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. GY	
	P-RKF 63-*/M20		*M20 Threads*	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	

See page C49 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

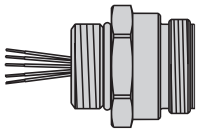
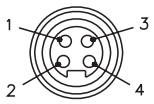
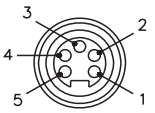
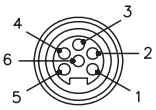
Housing Style	Part Number	Lead Specs	Features	Pinout	
17 	P-RKF 70-*/M20	**UL, CSA** **7x18 AWG** **105°C** **600 V, 8 A**	***M20 Threads***	1. BU 2. BN 3. GY 4. WH 5. BK 6. GY 7. GN/YE	
	P-RKF 80-*/M20	**UL, CSA** **8x18 AWG** **105°C** **600 V, 8 A**		1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN	
19 	P-RKF 100-*/M20	**UL, CSA** **10x18 AWG** **105°C** **600 V, 8 A**		1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. GY 8. GN/YE 9. WH/OG 10. OG/WH	

See page C50 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RKF.."; "P-RKFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

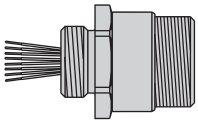
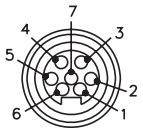
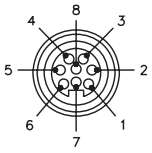
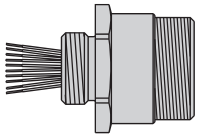
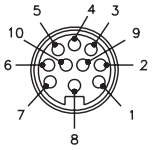
Housing Style	Part Number	Lead Specs	Features	Pinout	
16 	P-RSF 44-*/M20	UL, CSA 4x18 AWG 105°C 600 V, 9 A	*M20 Threads*	1. BU 2. BN 3. WH 4. BK	
	P-RSF 442-*/M20			1. BK 2. WH 3. RD 4. GN	
	P-RSF 45-*/M20	UL, CSA 3x16 AWG 105°C 600 V, 9 A		1. WH 2. BK 3. N/C 4. GN	
	P-RSF 52-*/M20	UL, CSA 5x18 AWG 105°C 600 V, 9 A		1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RSF 56-*/M20	UL, CSA 5x18 AWG 105°C 600 V, 9 A		1. BK 2. BU 3. GN/YE 4. BN 5. WH	
	P-RSF 60-*/M20	UL, CSA 5x16 AWG 105°C 600 V, 9 A		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. N/C	
	P-RSF 60D-*/M20	UL, CSA 6x16 AWG 105°C 600 V, 9 A	*M20 Threads, Drain Wire*	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. GY	
	P-RSF 63-*/M20		*M20 Threads*	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	

See page C49 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

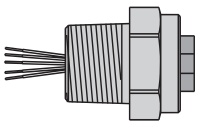
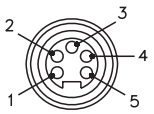
Housing Style	Part Number	Lead Specs	Features	Pinout	
18 	P-RSF 70-*/M20	**UL, CSA** **7x18 AWG** **105°C** **600 V, 8 A**	***M20 Threads***	1. BU 2. BN 3. GY 4. WH 5. BK 6. GY 7. GN/YE	
	P-RSF 80-*/M20	**UL, CSA** **8x18 AWG** **105°C** **600 V, 8 A**		1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN	
20 	P-RSF 100-*/M20	**UL, CSA** **10x18 AWG** **105°C** **600 V, 8 A**		1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. GY 8. GN/YE 9. WH/OG 10. OG/WH	

See page C50 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is nickel plated brass "P-RSF.."; "P-RSFV.." indicates 316 stainless steel.
Receptacles recommend 13/16" (21.0 mm) hole for panel mounting.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Explosion Proof Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

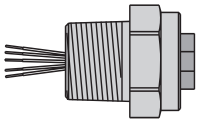
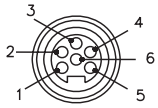
Housing Style	Part Number	Lead Specs	Features	Pinout	
21 	P-RKFV 44 EX-*/14.5/NPT	**UL, CSA 4x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads***	1. BU 2. BN 3. WH 4. BK	
	P-RKFV 45 EX-*/14.5/NPT	**UL, CSA 3x16 AWG 105°C 600 V, 9 A**		1. WH 2. BK 3. N/C 4. GN	
	P-RKFV 52 EX-*/14.5/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RKFV 55 EX-*/14.5/NPT	**UL, CSA 4x16 AWG 105°C 600 V, 9 A**		1. WH 2. BK 3. GN 4. RD 5. N/C	
	P-RKFV 56 EX-*/14.5/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. BU 3. GN/YE 4. BN 5. WH	

See page C50 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast ® Explosion Proof Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

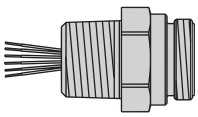
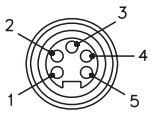
Housing Style	Part Number	Lead Specs	Features	Pinout	
21 	P-RKFV 60 EX-*/14.5/NPT	**UL, CSA** **5x16 AWG** **105°C** **600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. N/C	
	P-RKFV 60D EX-*/14.5/NPT	**UL, CSA** **6x16 AWG** **105°C** **600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. GY	
	P-RKFV 63 EX-*/14.5/NPT	**UL, CSA** **6x16 AWG** **105°C** **600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads***	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RKFV 65 EX-*/14.5/NPT	**UL, CSA** **5x16 AWG** **105°C** **600 V, 9 A**		1. BK 2. BU 3. GN/YE 4. BN 5. WH 6. N/C	
	P-RKFV 66 EX-*/14.5/NPT	**UL, CSA** **5x18 AWG** **105°C** **600 V, 9 A**		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. N/C	

See page C50 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Explosion Proof Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

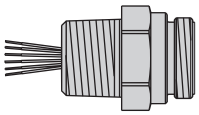
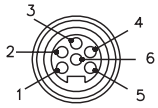
Housing Style	Part Number	Lead Specs	Features	Pinout	
22 	P-RSFV 44 EX-*/14.5/NPT	**UL, CSA 4x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads***	1. BU 2. BN 3. WH 4. BK	
	P-RSFV 45 EX-*/14.5/NPT	**UL, CSA 3x16 AWG 105°C 600 V, 9 A**		1. WH 2. BK 3. N/C 4. GN	
	P-RSFV 52 EX-*/14.5/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RSFV 55 EX-*/14.5/NPT	**UL, CSA 4x16 AWG 105°C 600 V, 9 A**		1. WH 2. BK 3. GN 4. RD 5. N/C	
	P-RSFV 56 EX-*/14.5/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. BU 3. GN/YE 4. BN 5. WH	

See page C50 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Explosion Proof Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

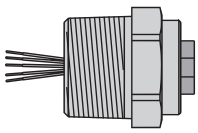
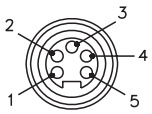
Housing Style	Part Number	Lead Specs	Features	Pinout	
22 	P-RSFV 60 EX-*/14.5/NPT	**UL, CSA 5x16 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. N/C	
	P-RSFV 60D EX-*/14.5/NPT	**UL, CSA 6x16 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. GY	
	P-RSFV 63 EX-*/14.5/NPT	**UL, CSA 6x16 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 1/2-14NPT Threads***	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RSFV 65 EX-*/14.5/NPT	**UL, CSA 5x16 AWG 105°C 600 V, 9 A**		1. BK 2. BU 3. GN/YE 4. BN 5. WH 6. N/C	
	P-RSFV 66 EX-*/14.5/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. N/C	

See page C50 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Explosion Proof Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

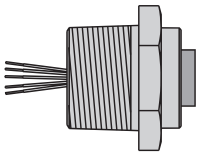
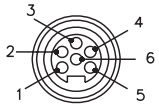
Housing Style	Part Number	Lead Specs	Features	Pinout	
23 	P-RKFV 44 EX-*/14.75/NPT	**UL, CSA 4x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 3/4-14NPT Threads***	1. BU 2. BN 3. WH 4. BK	
	P-RKFV 45 EX-*/14.75/NPT	**UL, CSA 3x16 AWG 105°C 600 V, 9 A**		1. WH 2. BK 3. N/C 4. GN	
	P-RKFV 52 EX-*/14.75/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RKFV 55 EX-*/14.75/NPT	**UL, CSA 4x16 AWG 105°C 600 V, 9 A**		1. WH 2. BK 3. GN 4. RD 5. N/C	
	P-RKFV 56 EX-*/14.75/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. BU 3. GN/YE 4. BN 5. WH	

See page C50 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Explosion Proof Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Female Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

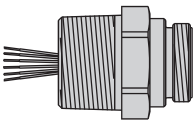
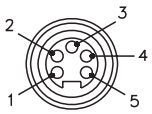
Housing Style	Part Number	Lead Specs	Features	Pinout	
23 	P-RKFV 60 EX-*/14.75/NPT	**UL, CSA** **5x16 AWG** **105°C** **600 V, 9 A**	***Explosion Proof Receptacle, 3/4-14NPT Threads***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. N/C	
	P-RKFV 60D EX-*/14.75/NPT	**UL, CSA** **6x16 AWG** **105°C** **600 V, 9 A**	***Explosion Proof Receptacle, 3/4-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. GY	
	P-RKFV 63 EX-*/14.75/NPT	**UL, CSA** **6x16 AWG** **105°C** **600 V, 9 A**	***Explosion Proof Receptacle, 3/4-14NPT Threads***	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RKFV 65 EX-*/14.75/NPT	**UL, CSA** **5x16 AWG** **105°C** **600 V, 9 A**		1. BK 2. BU 3. GN/YE 4. BN 5. WH 6. N/C	
	P-RKFV 66 EX-*/14.75/NPT	**UL, CSA** **5x18 AWG** **105°C** **600 V, 9 A**		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. N/C	

See page C50 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Explosion Proof Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

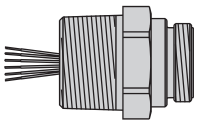
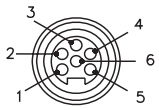
Housing Style	Part Number	Lead Specs	Features	Pinout	
24 	P-RSFV 44 EX-*/14.75/NPT	**UL, CSA 4x18 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 3/4-14NPT Threads***	1. BU 2. BN 3. WH 4. BK	
	P-RSFV 45 EX-*/14.75/NPT	**UL, CSA 3x16 AWG 105°C 600 V, 9 A**		1. WH 2. BK 3. N/C 4. GN	
	P-RSFV 52 EX-*/14.75/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. WH 3. GY 4. BN 5. BU	
	P-RSFV 55 EX-*/14.75/NPT	**UL, CSA 4x16 AWG 105°C 600 V, 9 A**		1. WH 2. BK 3. GN 4. RD 5. N/C	
	P-RSFV 56 EX-*/14.75/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BK 2. BU 3. GN/YE 4. BN 5. WH	

See page C50 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

minifast® Explosion Proof Receptacles with Leads, Additional Analog or Discrete Control Circuits

- **Male Receptacles**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

Housing Style	Part Number	Lead Specs	Features	Pinout	
24 	P-RSFV 60 EX-*/14.75/NPT	**UL, CSA 5x16 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 3/4-14NPT Threads***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. N/C	
	P-RSFV 60D EX-*/14.75/NPT	**UL, CSA 6x16 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 3/4-14NPT Threads, Drain Wire***	1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. GY	
	P-RSFV 63 EX-*/14.75/NPT	**UL, CSA 6x16 AWG 105°C 600 V, 9 A**	***Explosion Proof Receptacle, 3/4-14NPT Threads***	1. WH 2. RD 3. GN 4. OG 5. BK 6. BU	
	P-RSFV 65 EX-*/14.75/NPT	**UL, CSA 5x16 AWG 105°C 600 V, 9 A**		1. BK 2. BU 3. GN/YE 4. BN 5. WH 6. N/C	
	P-RSFV 66 EX-*/14.75/NPT	**UL, CSA 5x18 AWG 105°C 600 V, 9 A**		1. BU 2. BN 3. GN/YE 4. WH 5. BK 6. N/C	

See page C50 for dimensional drawings.

* Length in meters. Standard lead length is 0.3 meters. Consult factory for other lengths.
Standard housing material is 316 stainless steel.
Note: See **TURCK** Control Drawing QCF-00147(www.turck.com/fmcd) for guidance on installation in hazardous locations.

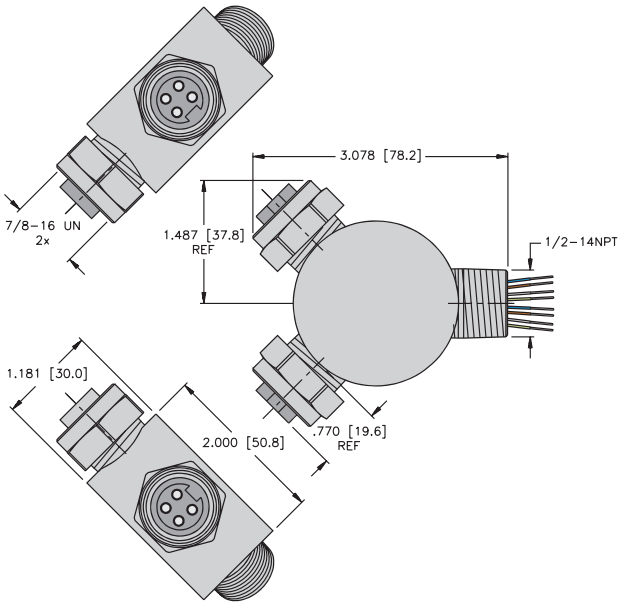
minifast ® "Y" Fittings, Additional Analog or Discrete Circuits

- 600 V
- 9 A Per Conductor
- Installs in Standard Conduit Entries
- Stainless Steel Housing

			1/2-14NPT						3/4-14NPT	
			J1	J2	P1	P2	P1	J2	J1	J2
Specifications	**Wiring Dia.**	**Housing Material**	**Female**	**Female**	**Male**	**Male**	**Male**	**Female**	**Female**	**Female**
4/18 AWG leads per connector	1	SS	P-2RKFV-44EX-*/14.5/NPT		P-2RSFV-44EX-*/14.5/NPT		P-RSFV RKFV-44EX-*/14.5/NPT		P-2RKFV-44EX-*/14.75/NPT	

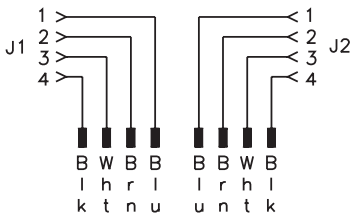
* Length in meters.
SS = Stainless steel

Dimensions



Wiring Diagram

1

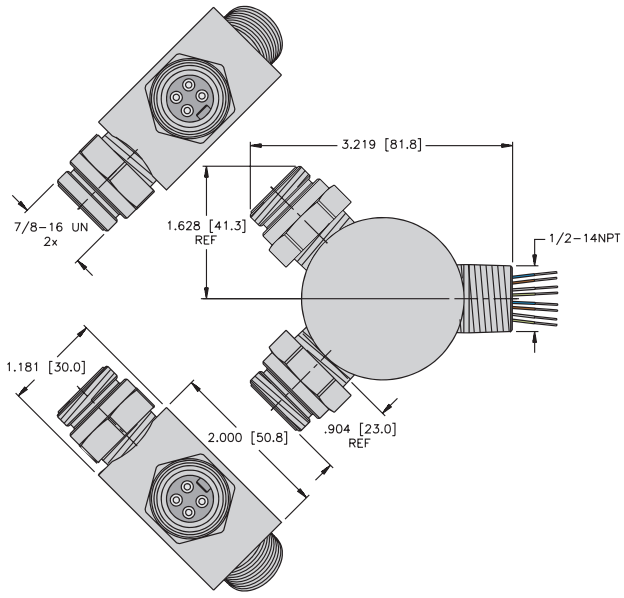


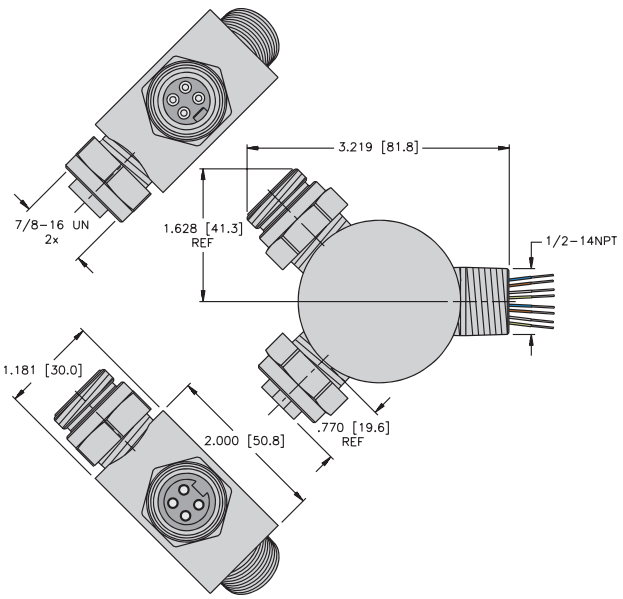
Specifications

Housing:	316 stainless steel (SS), passivated.
Contact Carrier:	PUR black.
Electrical Ratings:	600 V, 9 A per conductor.
Temperature:	-30° to +105°C (-22° to +221°F).
Contacts:	Gold plated brass.
Protection:	IP 67 (only when all receptacles are mated or covered with plugs).
Leads:	High flex stranding, PVC, insulated, 600 V, UL recognized, CSA certified.

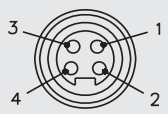
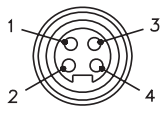
3/4-14NPT				M20x1.5					
P1	P2	P1	J2	J1	J2	P1	P2	P1	J2
Male	Male	Male	Female	Female	Female	Male	Male	Male	Female
P-2RSFV-44EX-*/14.75/NPT		P-RSFV RKFV-44EX-*/14.75/NPT		P-2RKFV-44EX-*/M20		P-2RSFV-44EX-*/M20		P-RSFV RKFV-44EX-*/M20	

Dimensions





Pinouts

Female	Male
	
4-Pin	4-Pin

multibox® minifast® Metal Junction Boxes

- **Consolidation of Analog or Discrete Circuits in Hazardous Locations or Unclassified Locations**

FM APPROVED

FM approved for installation in hazardous locations when installed per **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) using specified accessory equipment.

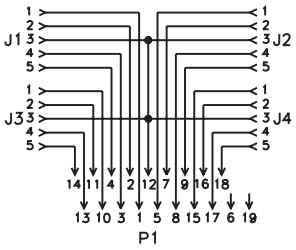
4-port, Common Ground and Shield

Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
4-port cast aluminum junction box, ***minifast*** port connectors, ***multifast*** ® home-run connector, 4-wire discrete signal per port	19-pin ***multifast*** connector, 19 conductors	Port, Pin / Home-Run: Port 1, Pin 1 – 1; Port 1, Pin 2 – 2; Port 1, Pin 4 – 3; Port 1, Pin 5 – 4; Port 2, Pin 1 – 5; NC – 6; Port 2, Pin 2 – 7; Port 2, Pin 4 – 8; Port 2, Pin 5 – 9; Port 3, Pin 1 – 10; Port 3, Pin 2 – 11; Ports 1-8, Pin 3 – 12; Port 3, Pin 4 – 13; Port 3, Pin 5 – 14; Port 4, Pin 1 – 15; Port 4, Pin 2 – 16; Port 4, Pin 4 – 17; Port 4, Pin 5 – 18; NC – 19	P-4 RKF 56-CS19	P-4 RKFV 56-CSV19
4-port cast aluminum junction box, ***minifast*** port connectors, ***multifast*** home-run connector, 2 analog signals per port	19-pin ***multifast*** connector, 16 conductors plus drain	Port, Pin / Home-Run: Port 1, Pin 1 – 1; Port 1, Pin 2 – 2; Port 1, Pin 4 – 3; Port 1, Pin 5 – 4; Port 2, Pin 1 – 5; Shield – 6; Port 2, Pin 2 – 7; Port 2, Pin 4 – 8; Port 2, Pin 5 – 9; Port 3, Pin 1 – 10; Port 3, Pin 2 – 11; Ground – 12; Port 3, Pin 4 – 13; Port 3, Pin 5 – 14; Port 4, Pin 1 – 15; Port 4, Pin 2 – 16; Port 4, Pin 4 – 17; Port 4, Pin 5 – 18; NC – 19	P-4 RKF 66-CS19	P-4 RKFV 66-CS19

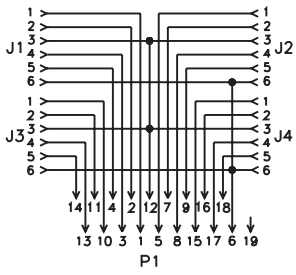
See pages B75 and B79 for mating home-run cordsets.

Wiring Diagrams

4-Wire Discrete



2 Analog Signals Per Port

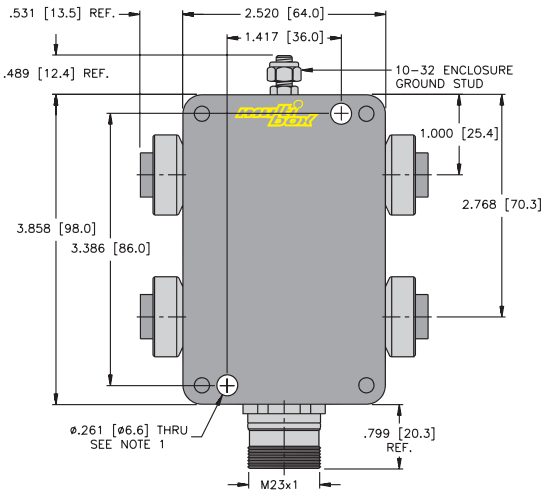


Specifications

Housing:	Die-cast aluminum alloy.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), oil resistant PUR contact carrier.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 67.
Electrical Rating:	300 V, 4 A; 150 V, 3 A.

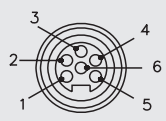
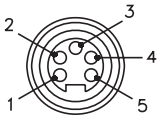
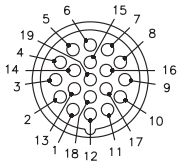
Dimensions

4-Port



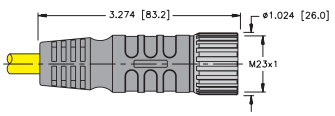
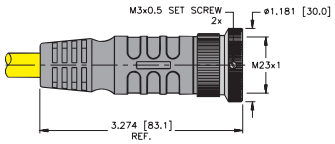
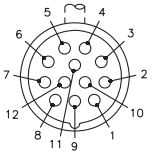
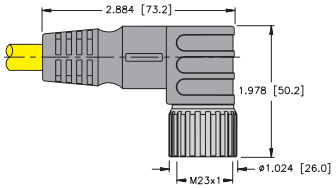
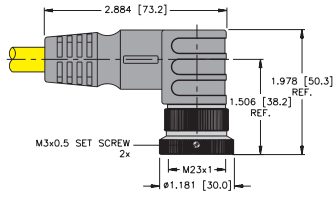
Notes:
1. Clearance hole for 1/4-20 mounting screws (2 not included)

Pinouts

Female		Male
		
6-Pin *minifast*®	**5-Pin *minifast***	**19-Pin *multifast***

multifast® Drop Cordsets, Additional Analog or Discrete Control Circuits

- **Female Connectors**
- **IEC IP 67 Protection**

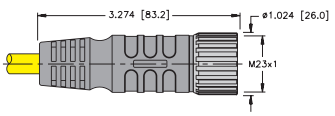
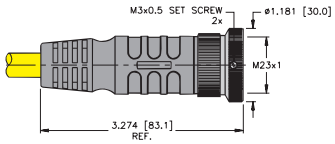
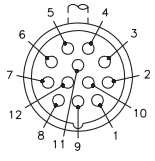
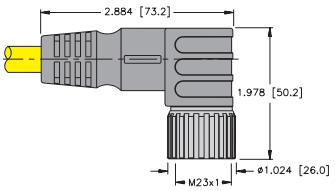
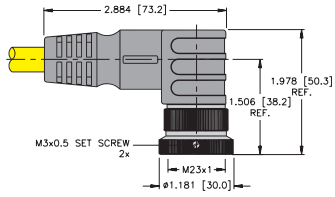
Housing Style	Part Number	Cable	Features	Pinout	
P-CKM ..  **P-CKML .. (for Class I, Division 2 applications)**  	P-CKM 12-088-*	**ITC/PLTC PVC Yellow** **11x18 AWG** **Foil/Drain (20)** **105°C** **10 mm OD** **300 V, 6 A** **Cable #RF51088-*M†**	***Discrete control circuits in Class I, Division 2 hazardous locations or unclassified locations.***	1. BN 2. N/C 3. BU 4. WH 5. GN 6. YE 7. GY 8. PK 9. RD 10. BK 11. VT 12. GN/YE	
P-CKWM ..  **P-CKWML .. (for Class I, Division 2 applications)**  	P-CKWM 12-088-*				

* Length in meters. Standard cable lengths are 2, 4, 6, 8, and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "CKM(L).."/"CKWM(L).."; "CKM(L)V.."/"CKWM(L)V" indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.

multifast® Drop Cordsets, Additional Analog or Discrete Control Circuits

- Male Connectors
- IEC IP 67 Protection

Housing Style	Part Number	Cable	Features	Pinout	
P-CSM ..  **P-CSML .. (for Class I, Division 2 applications)**  	P-CSM 12-088-*	**ITC/PLTC PVC Yellow** **11x18 AWG** **Foil/Drain (20)** **105°C** **10 mm OD** **300 V, 6 A** **Cable #RF51088-*M†**	***Discrete control circuits in Class I, Division 2 hazardous locations or unclassified locations.***	1. BN 2. N/C 3. BU 4. WH 5. GN 6. YE 7. GY 8. PK 9. RD 10. BK 11. VT 12. GN/YE	
P-CSWM ..  **P-CSWML .. (for Class I, Division 2 applications)**  	P-CSWM 12-088-*				

* Length in meters. Standard cable lengths are 2, 4, 6, 8, and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "CSM(L).."/"CSWM(L).."; "CSM(L)V.."/"CSWM(L)V" indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.

NAMUR Circuits

M12 *eurofast*® Thread	Drop Cordsets	2-Branch Molded Junctions	Junction Boxes
Pages	D5 - D8	D9 - D12	D13 - D16

M23 *multifast*® Thread	Cordsets
Pages	D17 - D19

eurofast® NAMUR Cordset Part Number Key, Class I, Division 1 Hazardous Locations

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

R	K			4.21	T	-	2	-	RS 4.21T	

eurofast
R = Straight
W = Right Angle

Gender
K = Female Connector
S = Male Connector

Body Plug Style
(Blank) = Standard Plug Body
C = Medium Plug Body

Coupling Nut Options
(Blank) = Nickel Plated Brass
V = 316 Stainless Steel

Number of Wires / AWG / Color Codes
4.21 = 2x20 AWG, BU, BN
4.41 = 4x22 AWG, BN, WH, BU, BK
5 = 5x22 AWG, GN, WH, OG, BK, RD
6 = 5x24 AWG, OG, RD, YE, BK, BU

T = T Barb Fitting

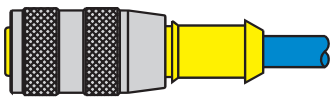
Length in Meters

Insertion Point of Extension Cable and 2nd Prefix*
* Female Connector Listed 1st, Male Connector 2nd
Example: RK 4.21T-2-RS 4.21T

Varieties
(Blank) = PVC Jacket
/S.. = Consult Factory, Special
/S90 = PUR Jacket

Single Ended Example:

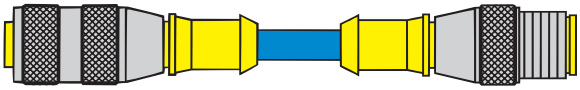
R	K	4.21	T	-	2



RK ..

Extension Example:

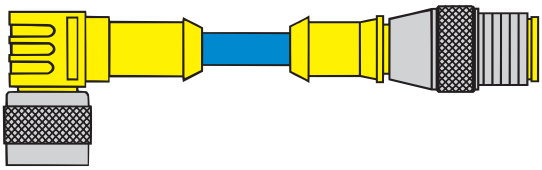
R	K	4.21	T	-	2	-	RS	4.21	T



RK .. - RS ..

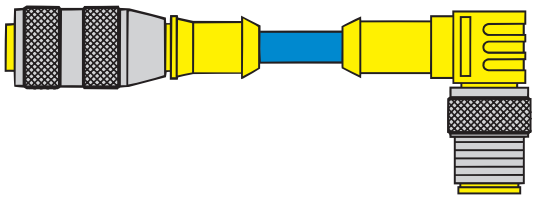
eurofast® NAMUR Cordset Extensions

Other Extension Examples:



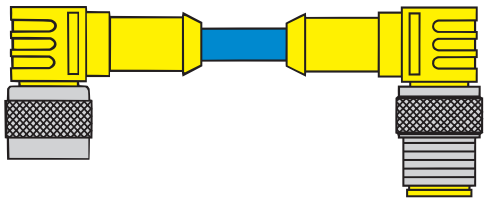
WK .. - RS ..

W K | 4.21 T | - | 2 | - | RS | 4.21 T



RK .. - WS ..

R K | 4.21 T | - | 2 | - | WS | 4.21 T



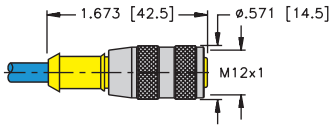
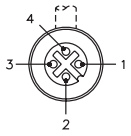
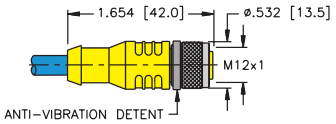
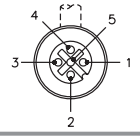
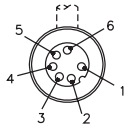
WK .. - WS ..

W K | 4.21 T | - | 2 | - | WS | 4.21 T

Notes:

2, 4, 5 and 6-Wire *eurofast*® Drop Cordsets, NAMUR

- Straight Female Connectors
- For Use With NAMUR Sensors
- NEMA 1, 3, 4, 6P and IEC IP 68 Protection

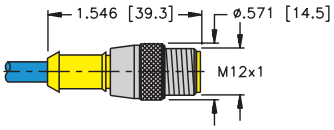
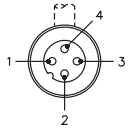
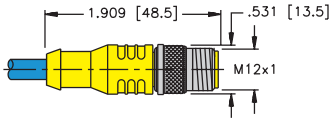
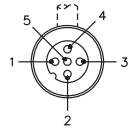
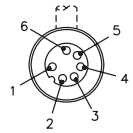
Housing Style	Part Number	Cable	Features	Pinout	
RK .. 	RK 4.21T-*	**AWM PVC NAMUR Blue 2x20 AWG 105°C 5.2 mm OD Cable #RF20003-*M†**	***flexlife*®**	1. BN 2. BU 3. N/C 4. N/C	
	RK 4.21T-*/S90	**AWM PUR NAMUR Blue 2x20 AWG 105°C 5.2 mm OD Cable #RF50657-*M†**	***Cut/Abrasion Immune***		
	RK 4.41T-*	**AWM PVC NAMUR Blue 4x22 AWG 105°C 5.2 mm OD Cable #RF50598-*M†**	***flexlife***	1. BN 2. WH 3. BU 4. BK	
RKC .. 	RKCN 5T-*	**PLTC PVC NAMUR Blue 5x22 AWG 105°C 6.8 mm OD Cable #RF50767-*M†**	***flexlife, 22 AWG, Over 2 million cycles, for VBN 40-H1141 multibox***	1. GN 2. WH 3. OG 4. BK 5. RD	
	RKC 6T-*/S90/CS10476	**AWM PUR NAMUR Blue 5x24 AWG Foil/Drain 105°C 60 VAC/75 VDC, 2 A 5.7 mm OD Cable #RF50928-*M†**	***Cut/Abrasion Immune***	1. OR 2. RD 3. YE 4. BK 5. BU 6. Drain	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "RK(C)"; "RK(C)V.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.

2, 4, 5 and 6-Wire *eurofast*® Drop Cordsets, NAMUR

- **Straight Male Connectors**
- **For Use With NAMUR Sensors**
- **NEMA 1, 3, 4, 6P and IEC IP 68 Protection**

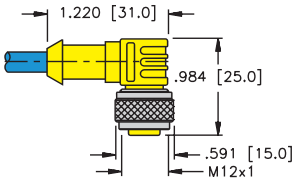
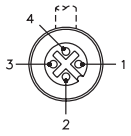
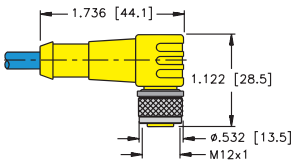
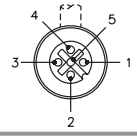
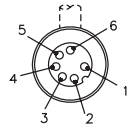
Housing Style	Part Number	Cable	Features	Pinout	
RS .. 	RS 4.21T-*	**AWM PVC NAMUR Blue 2x20 AWG 105°C 5.2 mm OD Cable #RF20003-*M†**	***flexlife***®	1. BN 2. BU 3. N/C 4. N/C	
	RS 4.21T-*/S90	**AWM PUR NAMUR Blue 2x20 AWG 105°C 5.2 mm OD Cable #RF50657-*M†**	***Cut/Abrasion Immune***		
	RS 4.41T-*	**AWM PVC NAMUR Blue 4x22 AWG 105°C 5.2 mm OD Cable #RF50598-*M†**	***flexlife***	1. BN 2. WH 3. BU 4. BK	
RSC .. 	RSCN 5T-*	**PLTC PVC NAMUR Blue 5x22 AWG 105°C 6.8 mm OD Cable #RF50767-*M†**	***flexlife, 22 AWG, Over 2 million cycles, for VBN 40-H1141 multibox***	1. GN 2. WH 3. OG 4. BK 5. RD	
	RSC 6T-*/S90/CS10476	**AWM PUR NAMUR Blue 5x24 AWG Foil/Drain 105°C 60 VAC/75 VDC, 2 A 5.7 mm OD Cable #RF50928-*M†**	***Cut/Abrasion Immune***	1. OG 2. RD 3. YE 4. BK 5. BU 6. Drain	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "RS(C)"; "RS(C)V.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.

2, 4, 5 and 6-Wire *eurofast*® Drop Cordsets, NAMUR

- Right Angle Female Connectors
- For Use With NAMUR Sensors
- NEMA 1, 3, 4, 6P and IEC IP 68 Protection

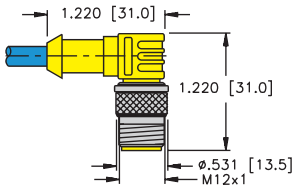
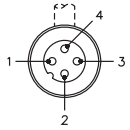
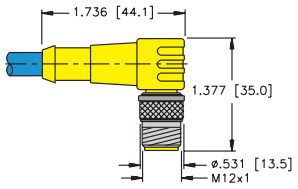
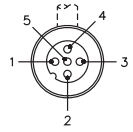
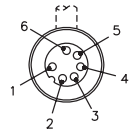
Housing Style	Part Number	Cable	Features	Pinout	
WK .. 	WK 4.21T-*	**AWM PVC NAMUR Blue 2x20 AWG 105°C 5.2 mm OD Cable #RF20003-*M†**	***flexlife*®**	1. BN 2. BU 3. N/C 4. N/C	
	WK 4.21T-*/S90	**AWM PUR NAMUR Blue 2x20 AWG 105°C 5.2 mm OD Cable #RF50657-*M†**	***Cut/Abrasion Immune***		
	WK 4.41T-*	**AWM PVC NAMUR Blue 4x22 AWG 105°C 5.2 mm OD Cable #RF50598-*M†**	***flexlife***	1. BN 2. WH 3. BU 4. BK	
WKC .. 	WKCN 5T-*	**PLTC PVC NAMUR Blue 5x22 AWG 105°C 6.8 mm OD Cable #RF50767-*M†**	***flexlife, 22 AWG, Over 2 million cycles, for VBN 40-H1141 multibox***	1. GN 2. WH 3. OG 4. BK 5. RD	
	WKC 6T-*/S90/CS10476	**AWM PUR NAMUR Blue 5x24 AWG Foil/Drain 105°C 60 VAC/75 VDC, 2 A 5.7 mm OD Cable #RF50928-*M†**	***Cut/Abrasion Immune***	1. OG 2. RD 3. YE 4. BK 5. BU 6. Drain	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "WK(C)"; "WK(C)V.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.

2, 4, 5 and 6-Wire *eurofast*® Drop Cordsets, NAMUR

- Right Angle Male Connectors
- For Use With NAMUR Sensors
- NEMA 1, 3, 4, 6P and IEC IP 67 Protection

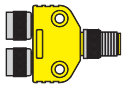
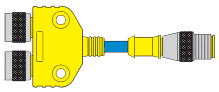
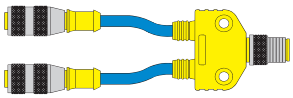
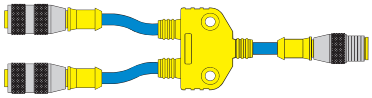
Housing Style	Part Number	Cable	Features	Pinout	
WS .. 	WS 4.21T-*	**AWM PVC NAMUR Blue 2x20 AWG 105°C 5.2 mm OD Cable #RF20003-*M†**	***flexlife*®**	1. BN 2. BU 3. N/C 4. N/C	
	WS 4.21T-*/S90	**AWM PUR NAMUR Blue 2x20 AWG 105°C 5.2 mm OD Cable #RF50657-*M†**	***Cut/Abrasion Immune***		
	WS 4.41T-*	**AWM PVC NAMUR Blue 4x22 AWG 105°C 5.2 mm OD Cable #RF50598-*M†**	***flexlife***	1. BN 2. WH 3. BU 4. BK	
WSC .. 	WSCN 5T-*	**PLTC PVC NAMUR Blue 5x22 AWG 105°C 6.8 mm OD Cable #RF50767-*M†**	***flexlife, 22 AWG, Over 2 million cycles, for VBN 40-H1141 multibox***	1. GN 2. WH 3. OG 4. BK 5. RD	
	WSC 6T-*/S90/CS10476	**AWM PUR NAMUR Blue 5x24 AWG Foil/Drain 105°C 60 VAC/75 VDC, 2 A 5.7 mm OD Cable #RF50928-*M†**	***Cut/Abrasion Immune***	1. OG 2. RD 3. YE 4. BK 5. BU 6. Drain	

* Length in meters. Standard cable lengths are 2, 4, 5, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "WS(C)"; "WS(C)V.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.

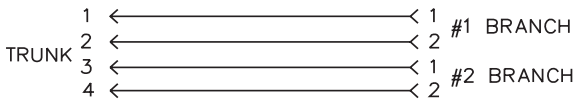
eurofast® 2 - Branch Molded Junctions, NAMUR Wiring

- Combine Two NAMUR Sensors into One Cable
- Tough Polyurethane Construction
- For use with NAMUR Junction Boxes

Application	Specifications	Wiring	Housing	Part Number
Combine 2 NAMUR sensors into one cable	250 V 4 A	NAMUR		VB2-FSM 4.41/2FKM 4.21
Combine 2 NAMUR sensors into one cable	250 V 4 A RS 4.41T = Blue PVC 5.2 mm OD, 4/22 AWG			VB2-RS 4.41T-*/2FKM 4.21
Combine 2 NAMUR sensors into one cable	250 V 4 A RK 4.21T = Blue PVC 5.2 mm OD, 2/20 AWG			VB2-FSM 4.41/2RK 4.21T-*/*
Combine 2 NAMUR sensors into one cable	250 V 4 A Blue PVC, 5.2 mm OD RK 4.21T – 2/20 AWG RS 4.41T – 4/22 AWG			VB2-RS 4.41T-*/2RK 4.21T-*/*

* Length in meters.

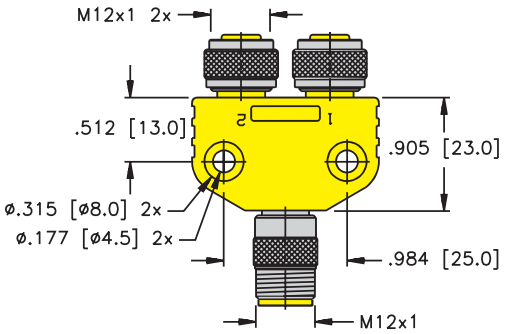
NAMUR Diagram



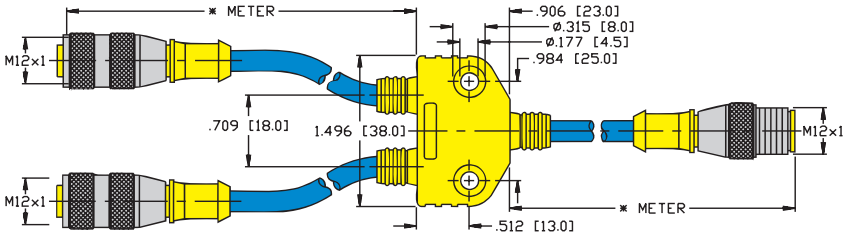
Junction Body:	Oil resistant yellow polyurethane.
Connector:	Oil resistant polyurethane body material, Nylon or PUR contact carrier, spacings to VDE 0110 Group C.
Contacts:	Gold plated brass.
Coupling Nuts:	Nickel plated brass.
Cable:	See table.
Temperature:	-40° to +105°C (-40° to +221°F).
Protection:	NEMA 1,3,4,6P and IEC IP 68.

Cable Length: Trunk - nominal 1 meter. Branches - nominal 0.3 meters. Other lengths available by request - consult factory.
Connector Options: (for legs with cable)
Stainless steel coupling nut add "V" to part number (RS to RSV, RK to RKV).
Nylon coupling nut add "K" to part number (RS to RSK, RK to RKK).
Right angle connectors, change part number (RS to WS, RK to WK).
Notes: Mounting holes accept #8 screw.

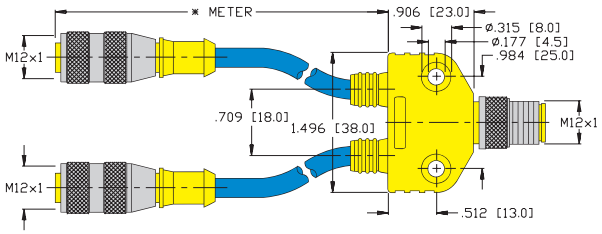
VB2-FSM 4.41/2FKM 4.21



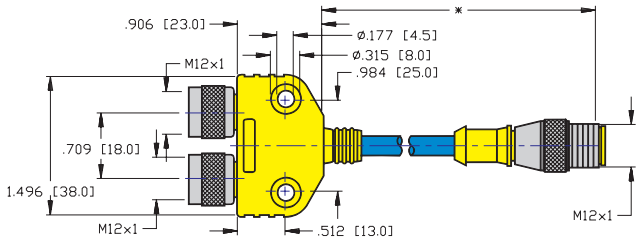
VB2-RS 4.41T-*/2RK 4.21T-*/*



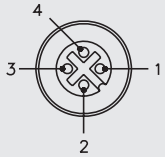
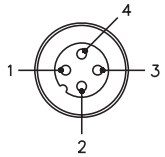
VB2-FSM 4.41/2RK 4.21T-*/*



VB2-RS 4.41T-*/2FKM 4.21

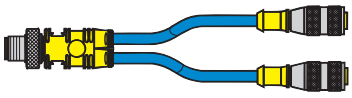


Pinouts

Female	Male
	
4-Pin *eurofast*®	**4-Pin *eurofast***

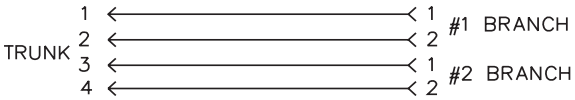
eurofast® 2 - Branch Molded Junctions, NAMUR Wiring

- **Combine Two NAMUR Sensors into One Cable**
- ***eurofast* Connection Features Anti-Vibration Coupling Nut** (main leg only)

Application	Specifications	Wiring	Housing	Part Number
Combine 2 NAMUR sensors into one cable. Connects directly to *eurofast* junction box.	**250 V 4 A 2/20 AWG Blue PVC 5.2 mm OD**	**NAMUR**		VBRS 4.41-2RK 4.21T-*/*

* Length in meters.
To add mounting hole; add /S857 to the end of the part number.

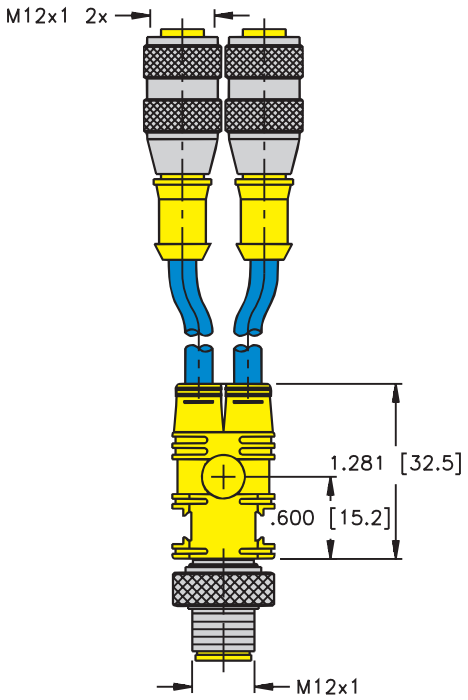
NAMUR Diagram



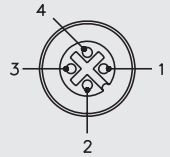
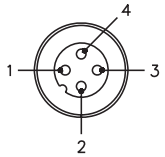
Connector:	Oil resistant yellow polyurethane Nylon or PUR contact carrier, spacings to VDE 0110 Group C.
Contacts:	Gold plated brass, machined from solid stock.
Coupling Nuts:	Nickel plated brass.
Cable:	See table.
Conductors:	High flex stranding, PVC insulation.
Temperature:	-40° to +105°C (-40° to +221°F).
Protection:	NEMA 1, 3, 4, 6P and IEC IP 67.
Accessories:	KS 5/10 labels included.

Cable Length: Branches - nominal 0.3 meters. Other lengths available by request - consult factory.

VBRS 4.41-2RK 4.21T-*/*



Pinouts

Female	Male
	
4-Pin *eurofast*®	**4-Pin *eurofast***

multibox® *eurofast*® Junction Boxes, NAMUR, 1 Circuit Per Port

- 4 Port
- Rugged Plastic Housing with Flush Connectors
- Quick Disconnect or Integral Home Run Cable
- For use with NAMUR Sensors

1 Circuit Per Port, Common Positive, 100 VDC

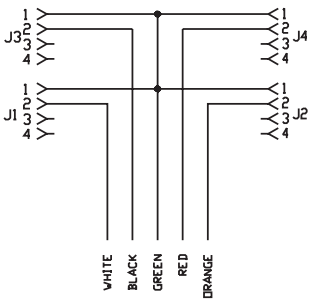
Application	Specifications	Pinout	Part Number
4-port J-box 1 circuit per port Integral cable	4 A/port, 9 A total Blue PVC cable, PLTC 5/22 AWG	Function / Color +V / GN Function / Color J1/Pin 2 / WH J2/Pin 2 / OG J3/Pin 2 / BK J4/Pin 2 / RD	VB 40N-*
4-port J-box 1 circuit per port ***eurofast*** connector	4 A/port, 4 A total 5-pin ***eurofast*** connector 5 conductors Mates with RKCN 5T-*	Function / Pin / Color +V / 1/GN Function / Pin / Color J1/Pin 2 / 2/WH J2/Pin 2 / 3/OG J3/Pin 2 / 4/BK J4/Pin 2 / 5/RD	VB 40N-H1151

1 Circuit Per Port, Isolated Circuits, 100 VDC

Application	Specifications	Pinout	Part Number
4-port J-box 1 circuit per port Integral cable	4 A/port, 9 A total Blue PVC cable, PLTC 9/22 AWG	Function / Color J1/Pin 1 / WH J1/Pin 2 / BK J2/Pin 1 / GN J2/Pin 2 / RD Brown not used Function / Color J3/Pin 1 / OG J3/Pin 2 / BU J4/Pin 1 / YE J4/Pin 2 / VT	VB 4X1N-*
4-port J-box 1 circuit per port ***multifast*** ® connector	4 A/port, 8 A total 12-pin ***multifast*** connector 9 conductors Mates with CKNWM 12-9-*	Function / Pin / Color J1/Pin 1 / 2/WH J1/Pin 2 / 3/BK J2/Pin 1 / 4/GN J2/Pin 2 / 5/RD Pin 1/Bn not used Function / Pin / Color J3/Pin 1 / 6/OG J3/Pin 2 / 7/BU J4/Pin 1 / 8/YE J4/Pin 2 / 9/VT	VB 4X1N-CS12

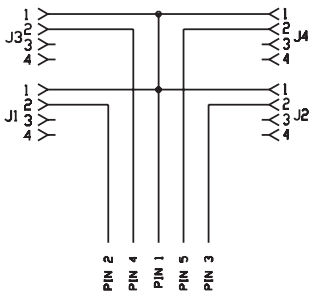
Functional Wiring Diagrams

Common Positive Integral Cable



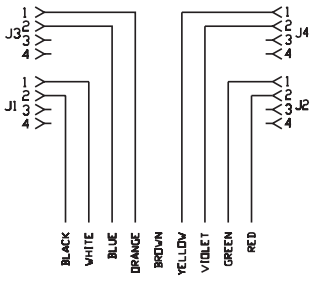
VB 40N-*

Common Positive *eurofast* Connector



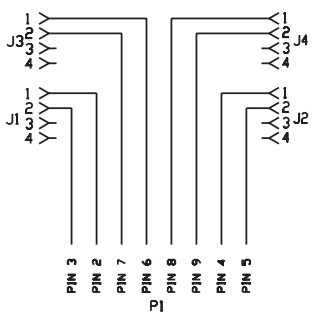
VB 40N-H1151

Isolated Circuit Integral Cable



VB 4X1N-*

Isolated Circuit *multifast* Connector



VB 4X1N-CS12

Specifications

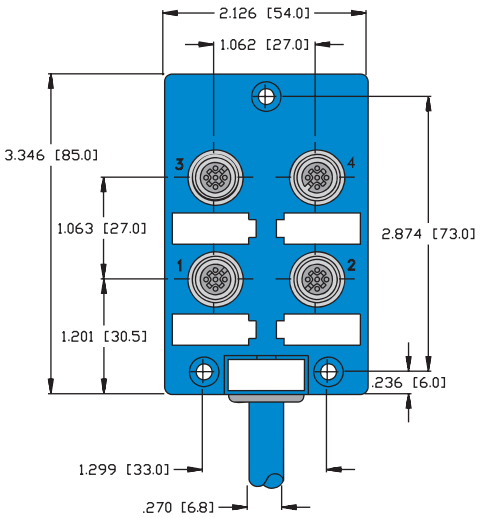
Housing:	Nylon.
Connectors:	***eurofast*** ®: Nylon or PUR, spacings to VDE 0110 Group C.
Contacts:	Gold plated brass, machined from solid stock.
Thread Inserts:	Nickel plated brass.
Cable:	See table.
Temperature:	-30° to +80°C (-22° to +176°F).
Protection:	NEMA 1, 3, 4, 6P and IEC IP 67.
Accessories:	(2) VZ 3 closure caps and one VZ 1 label kit (8 labels) included.

Cable Length:

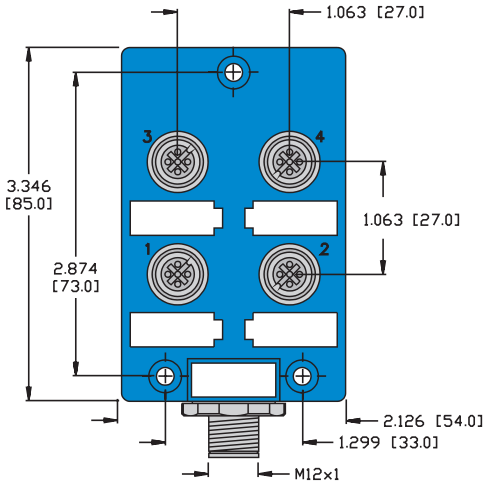
Standard length for junction boxes and ***multifast*** ® series quick disconnect cordsets is nominal 5 meters. Other lengths available by request. Consult factory.

Dimensions

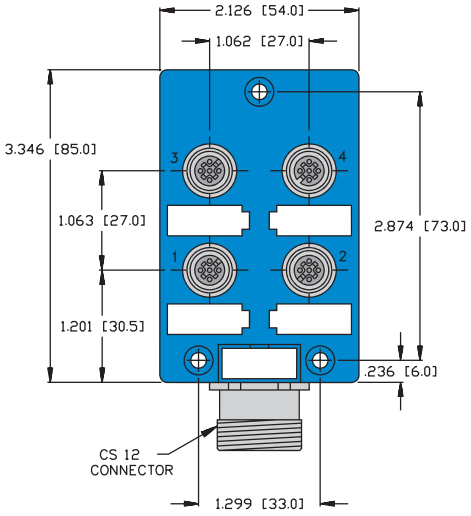
VB 40N-*
VB 4X1N-*



VB 40N-H1151



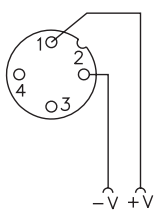
VB 4X1N-CS12



Notes:

1. Removable labels included (Part number VZ 1).
2. Clearance hole for #8 screw (3 places).
3. Housings with integral cable: 23.0 mm thickness. Housings with quick disconnect: 33.0 mm thickness.

Pinout Diagram



multibox® eurofast® Junction Boxes, NAMUR, 2 Circuits Per Port

- 4 Ports
- Rugged Plastic Housing with Flush Connectors
- Quick Disconnect or Integral Home Run Cable
- For use with NAMUR Sensors

2 Circuits Per Port, Common Positive, 100 VDC

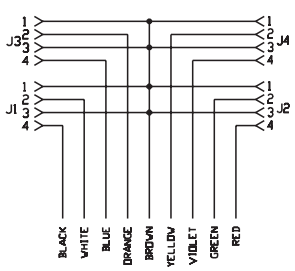
Application	Specifications	Pinout	Part Number
4-port J-box 2 circuits per port Integral cable	4 A/port, 9 A total Blue PVC cable, PLTC 9/22 AWG	Function / Color / Function / Color V+ / BN / J3/Pin 2 / OG J1/Pin 2 / WH / J3/Pin 4 / BU J1/Pin 4 / BK / J4/Pin 2 / YE J2/Pin 2 / GN / J4/Pin 4 / VT J2/Pin 4 / RD	VB 40.5N-*
4-port J-box 2 circuits per port ***multifast*®** connector	4 A/port, 8 A total 12-pin ***multifast*** connector 9 conductors Mates with CKNWM 12-9-*	Function / Pin / Color / Function / Pin / Color V+ / 1/BN / J3/Pin 2 / 6/OG J1/Pin 2 / 2/WH / J3/Pin 4 / 7/BU J1/Pin 4 / 3/BK / J4/Pin 2 / 8/YE J2/Pin 2 / 4/GN / J4/Pin 4 / 9/VT J2/Pin 4 / 5/RD	VB 40.5N-CS12

2 Circuits Per Port, Isolated Circuits, 100 VDC

Application	Specifications	Pinout	Part Number
4-port J-box 2 circuits per port Integral cable	4 A/port, 9 A total Blue PVC cable, PLTC 16/22 AWG	Function / Color / Function / Color J1/Pin 1 / WH / J3/Pin 1 / VT J1/Pin 2 / BK / J3/Pin 2 / GY J1/Pin 3 / GN / J3/Pin 3 / PK J1/Pin 4 / RD / J3/Pin 4 / TN J2/Pin 1 / OG / J4/Pin 1 / WH/BK J2/Pin 2 / BU / J4/Pin 2 / WH/GN J2/Pin 3 / BN / J4/Pin 3 / WH/RD J2/Pin 4 / YE / J4/Pin 4 / WH/BU	VB 4X1.5N-*
4-port J-box 2 circuits per port ***multifast*** connector	4 A/port, 8 A total 16-pin ***multifast*** connector 16 conductors Mates with CKNWM 16-16-*	Function / Pin / Color / Function / Pin / Color J1/Pin 1 / 1/WH / J3/Pin 1 / 9/VT J1/Pin 2 / 2/BK / J3/Pin 2 / 10/GY J1/Pin 3 / 3/GN / J3/Pin 3 / 11/PK J1/Pin 4 / 4/RD / J3/Pin 4 / 12/TN J2/Pin 1 / 5/OG / J4/Pin 1 / 13/WH/BK J2/Pin 2 / 6/BU / J4/Pin 2 / 14/WH/GN J2/Pin 3 / 7/BN / J4/Pin 3 / 15/WH/RD J2/Pin 4 / 8/YE / J4/Pin 4 / 16/WH/BU	VB 4X1.5N-CS16

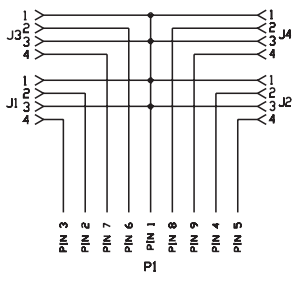
Functional Wiring Diagrams

Common Positive Integral Cable



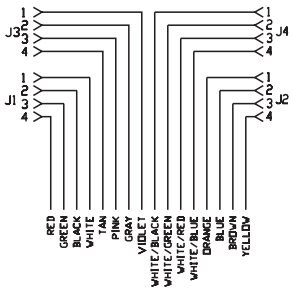
VB 40.5N-*

Common Positive *multifast* Connector



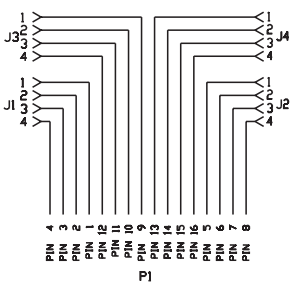
VB 40.5N-CS12

Isolated Circuit Integral Cable



VB 4X1.5N-*

Isolated Circuit *multifast* Connector



VB 4X1.5N-CS16

Specifications

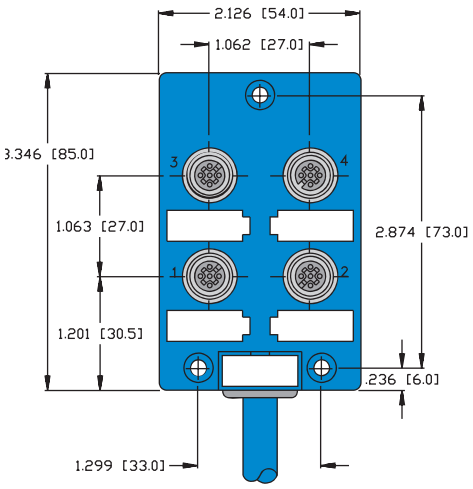
Housing:	Nylon.
Connectors:	***eurofast*** ®: Nylon or PUR, spacings to VDE 0110 Group C.
Contacts:	Gold plated brass, machined from solid stock.
Thread Inserts:	Nickel plated brass.
Cable:	See table.
Temperature:	-30° to +80°C (-22° to +176°F).
Protection:	NEMA 1, 3, 4, 6P and IEC IP 67.
Accessories:	(2) VZ 3 closure caps and one VZ 1 label kit (8 labels) included.

Cable Length:

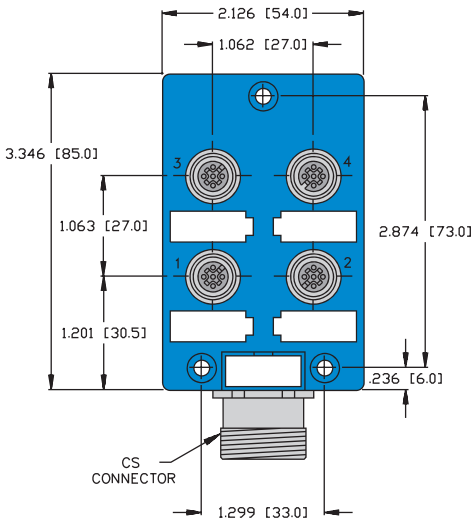
Standard length for junction boxes and ***multifast*** ® series quick disconnect cordsets is nominal 5 meters.
Other lengths available by request. Consult factory.

Dimensions

VB 40.5N-*
VB 4X1.5N-*



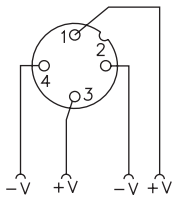
VB 40.5N-CS12
VB 4X1.5N-CS16



Notes:

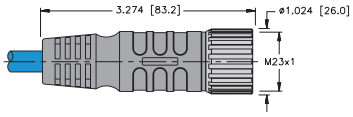
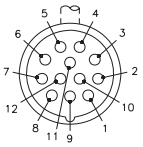
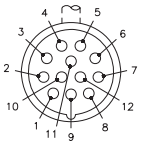
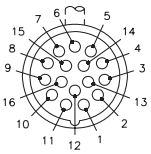
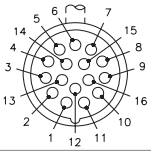
1. Removable labels included (Part number VZ 1).
2. Clearance hole for #8 screw (3 places).
3. Housings with integral cable: 23.0 mm thickness. Housings with quick disconnect: 33.0 mm thickness.

Pinout Diagram



12 and 16-Pin *multifast*® Cordsets-NAMUR

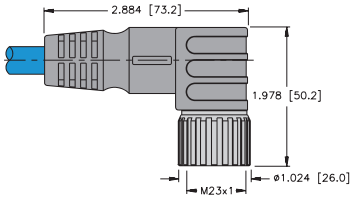
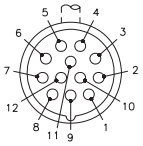
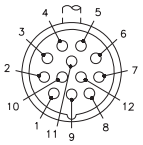
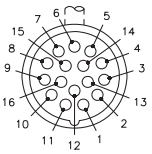
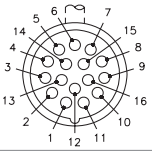
- Straight Male and Female Connectors
- IEC IP 67 Protection
- 300 V, 3 A

Housing Style	Part Number	Cable	Features	Pinout	
CKNM.. CSNM.. 	CKNM 12-9-*	**PLTC PVC Blue 9x22 AWG 105°C 6.9 mm OD Cable #RF50741-*M†**	*For use with junction boxes and for multi-conductor applications*	1. BN 7. BU 2. WH 8. YE 3. BK 9. VT 4. GN 10. N/C 5. RD 11. N/C 6. OG 12. N/C	
	CSNM 12-9-*				
	CKNM 16-16-*	**PLTC PVC Blue 16x22 AWG 105°C 8.3 mm OD Cable #RF50744-*M†**		1. WH 9. VT 2. BK 10. GY 3. GN 11. PK 4. RD 12. TN 5. OG 13. WH/BK 6. BU 14. WH/GN 7. BN 15. WH/RD 8. YE 16. WH/BU	
	CSNM 16-16-*				

* Length in meters.
Standard cable length is 5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "CK(S)NM.."; "CK(S)NMV.." indicates 316 stainless steel.
† See Section F for ***reelfast***® cable information.

12 and 16-Pin *multifast*® Cordsets-NAMUR

- **Right Angle Male and Female Connectors**
- **IEC IP 67 Protection**
- **300 V, 3 A**

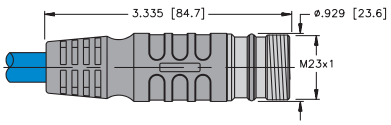
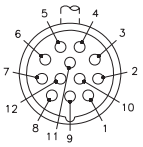
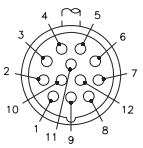
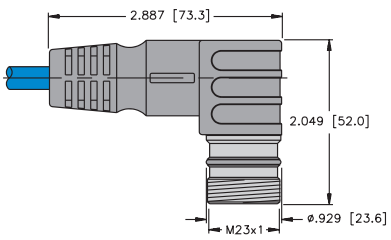
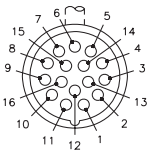
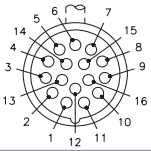
Housing Style	Part Number	Cable	Features	Pinout	
CKNWM.. CSNWM.. 	CKNWM 12-9-*	**PLTC PVC Blue 9x22 AWG 105°C 6.9 mm OD Cable #RF50741-*M†**	***For use with junction boxes and for multi-conductor applications***	1. BN 7. BU 2. WH 8. YE 3. BK 9. VT 4. GN 10. N/C 5. RD 11. N/C 6. OG 12. N/C	
	CSNWM 12-9-*				
	CKNWM 16-16-*	**PLTC PVC Blue 16x22 AWG 105°C 8.3 mm OD Cable #RF50744-*M†**		1. WH 9. VT 2. BK 10. GY 3. GN 11. PK 4. RD 12. TN 5. OG 13. WH/BK 6. BU 14. WH/GN 7. BN 15. WH/RD 8. YE 16. WH/BU	
	CSNWM 16-16-*				

* Length in meters.
Standard cable length is 5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "CK(S)NWM.."; "CK(S)NWMV.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.

12 and 16-Pin *multifast*® Cordsets-NAMUR

- Straight and Right Angle Male Connectors
- IEC IP 67 Protection
- 300 V, 3 A

Housing Style	Part Number	Cable	Features	Pinout	
CSSNM.. 	CSSNM 12-9-*	**PLTC PVC Blue 9x22 AWG 105°C 6.9 mm OD Cable #RF50741-*M†**	***For use with junction boxes and for multi-conductor applications***	1. BN 7. BU 2. WH 8. YE 3. BK 9. VT 4. GN 10. N/C 5. RD 11. N/C 6. OG 12. N/C	
	CSSNWM 12-9-*				
CSSNWM.. 	CSSNM 16-16-*	**PLTC PVC Blue 16x22 AWG 105°C 8.3 mm OD Cable #RF50744-*M†**		1. WH 9. VT 2. BK 10. GY 3. GN 11. PK 4. RD 12. TN 5. OG 13. WH/BK 6. BU 14. WH/GN 7. BN 15. WH/RD 8. YE 16. WH/BU	
	CSSNWM 16-16-*				

* Length in meters.
Standard cable length is 5 meters. Consult factory for other lengths.
Standard coupling nut material is nickel plated brass "CSSNM.."; "CSSNMV/CSSNWMV.." indicates 316 stainless steel.

† See Section F for ***reelfast***® cable information.

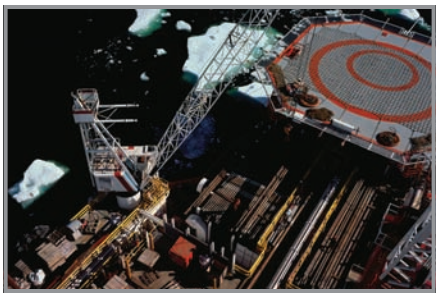
Notes:

TURCK = Total Connectivity

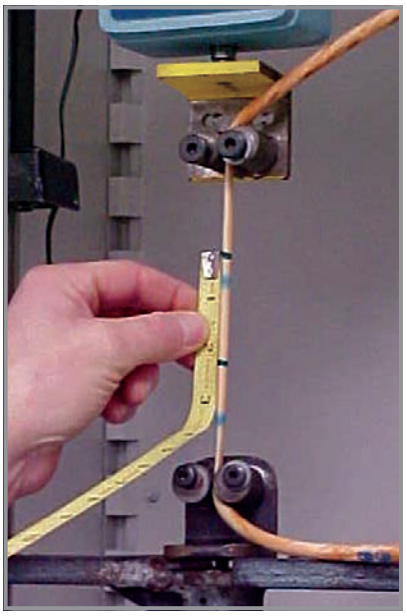
TURCK has been building connectivity products for over 15 years. **TURCK** connectors are approved by DNV and ABS for use in marine shipboard environments. **TURCK** also has an entire line of junction boxes for wiring consolidation. From off-the-shelf junctions for 4-20 mA transmitters, to custom boxes for any application, **TURCK** reduces costs by making wiring faster, easier and more reliable.

extremelife™cables are heavy duty for extreme temperature environments and provide excellent resistance to extreme cold temperatures and oilfield drilling muds. **TURCK** offers multiple single and twisted pair conductor options. ***extremelife*** cables are available in two jacket types, ***extremelife-25*** and ***extremelife-55***.
The following characteristics are specific to each cable.

Characteristics	*extremelife-25*	*extremelife-55*
Cable Gage Range	16 to 22	
UL Rating	UL1309	
CSA Rating	CSA 22.2 No. 245	
ABS Approval No.	03-HS400763-PDA	
IEEE Approvals	IEEE 45-1998 and IEEE 1580-2001	
Flexible Stranding	Yes	
Standard Insulation	T75 and T90 UL and CSA, T75 IEEE	
XLPE Insulation	110X for increased electrical properties required for network applications	
Flame Retardancy	IEEE 1202/FT4 and IEC 332-3 Category A	
Cold Bend Pass Temperature	-40°C (-40°F)	-55°C (-67°F)
Cold Impact Pass Temperature	Good	-50°C (-58°F)
Cut through and Abrasion Resistance	Good	Excellent
Moisture and Oil Resistance	Excellent	
Installation Handling	Good	
Oilfield Drilling Mud Resistance	Excellent	
Braided Armor	Available with or without	
Sunlight Resistance	Yes	



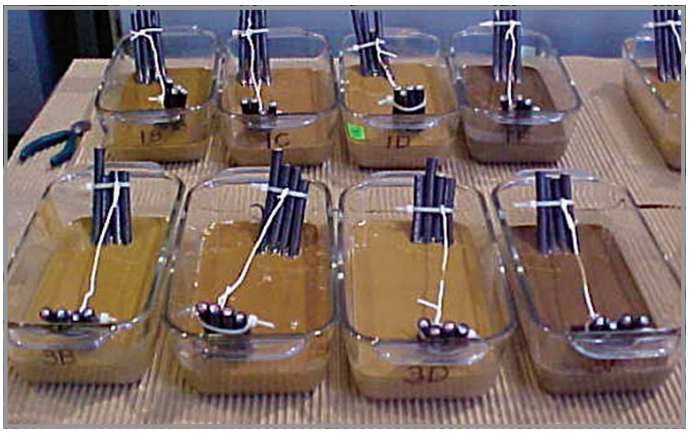
extremelife™cables have been extensively tested in various drilling muds/fluids. Samples of five different drilling fluids were used to evaluate how ***extremelife*** cables handle harsh environments. Cable samples were placed in the muds and put in a test oven at +65.6°C (+150°F). Shrink/swell and tensile strength/elongation were monitored throughout a 28 day aging test.



The ***extremelife*** cables, with their exclusive jacket materials, were compared with the industry standard neoprene cables. All tested cables passed the tensile strength and elongation tests. The ***extremelife*** cables proved to be much more stable in size through the tests when compared to the neoprene jacketed cables.

Drilling Mud Types Used:

- Water based
- Synthetic based (two types)
- Diesel based
- Mineral oil based



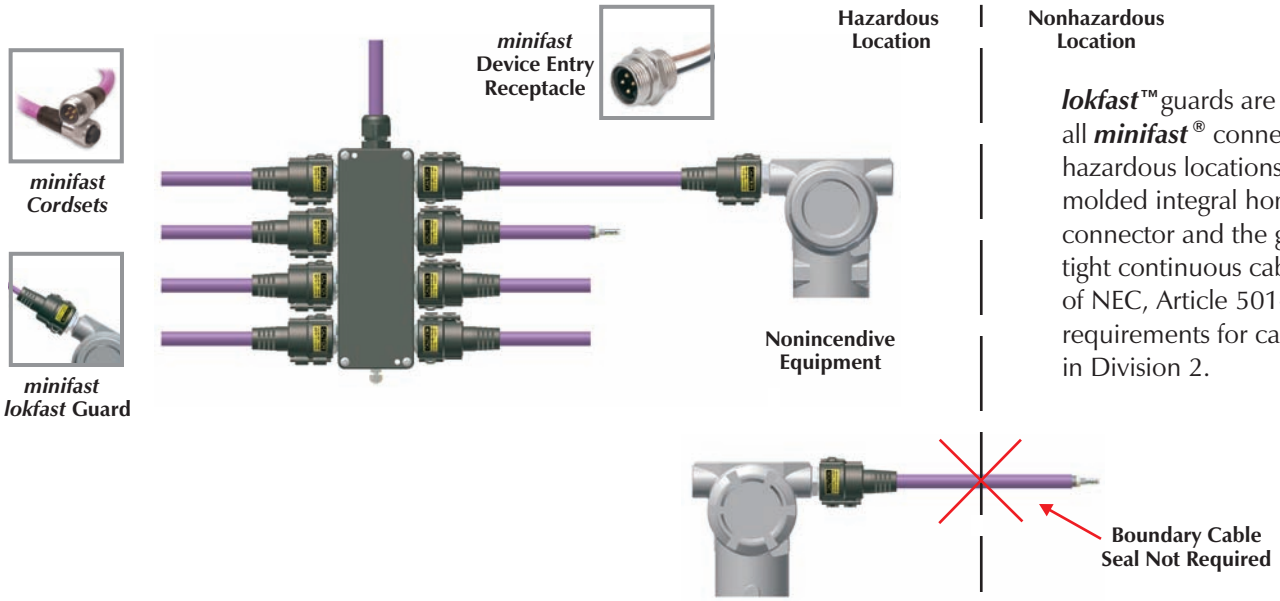
extremelife Cables:

- **Standard cables are stocked for quick delivery, and custom designs ship within 6 to 10 weeks.**
- **Multiple designs and custom configurations can be built using 16 to 22 AWG wires.**
- **Bronze armor styles combined with stable tinned-copper armor.**
- **Cost effective cables, since _extremelife_ can be made with 22 AWG conductors and tinned-copper armor.**
- **Assorted conductor sizes and insulation materials allow usage in network applications.**

Hazardous Locations

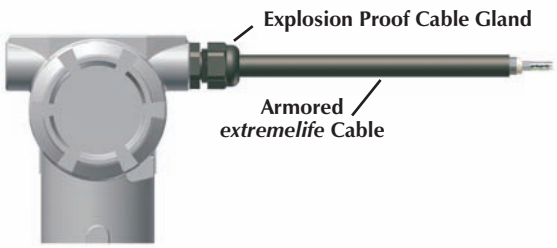
TURCK process wiring systems provide flexibility and functionality for use in hazardous locations. When installed correctly, the system is FM approved for use in Class I, Divisions 1 and 2 per **TURCK** drawing QCF-00147, found at www.turck.com/fmcd.

Class I, Division 2 - Quick Disconnect Basics



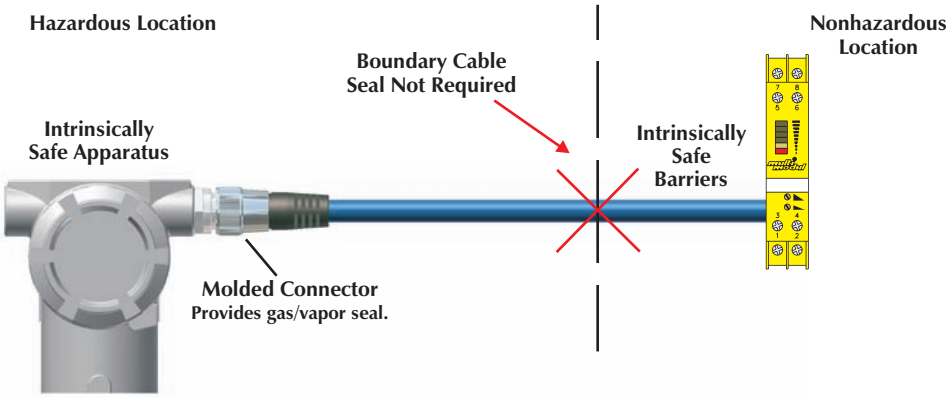
lokfast™ guards are used on all ***minifast***® connections in hazardous locations. The molded integral home-run connector and the gas/vapor tight continuous cable sheath of NEC, Article 501-5(E)(2) requirements for cable seals in Division 2.

Class I, Division 1 - Explosion Proof Method



The explosion proof method can be used in Class I, Division 1 locations by connecting an explosion proof cable gland to the transmitter. Armored ***extremelife***™ marine shipboard cable, with an overall impervious sheath over the armor, is the recommended wiring method for this environment.

Class I, Division 1 - Intrinsically Safe Circuits



Intrinsically safe circuits do not require ***lokfast*** guards on quick-disconnects. Boundary seals are also not required, as the molded home-run connector and the gas/vapor tight continuous cable sheath meet the NEC, Article 501-5(C) requirements for cable seals in Class I, Divisions 1 and 2.

minifast® Extension Cordset Part Number Key - Control Cable

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult Factory for catalog items not identified.

P	-	R	S	V	R	K	V	40-180	-	4M

Process Cordset

minifast

R = Straight
W = Right Angle

Gender

K = Female Connector, Female Threads
S = Male Connector, Male Threads
Y = Male Connector, Female Threads

Coupling Nut Material

(Blank) = Nylon
M = Nickel Plated Brass
V = 316 Stainless Steel

Insertion Point of Extension Cable 2nd Prefix*

* Male Connector Listed 1st, Female Connector 2nd
Example: P-RSV RKV 40-180-4M

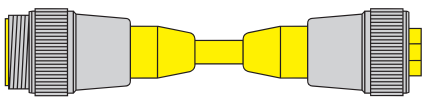
Length in Meters

Number of Wires / AWG / Conductor Colors

40-180	3/18	AWG BN, BU, GN/YE
40-181	3/18	AWG BN, BU, GN/YE
40-188	3/18	AWG BN, BU, GN/YE
56-964	5/18	AWG BK, BU, GN/YE, BN, WH
70-182	5/18	AWG BU, BN, WH, BK, GN/YE
80-073	8/18	AWG BK, WH, BU, RD, YE, BN, GY, GN
80-158	8/18	AWG BK, WH, BU, RD, YE, BN, GY, GN
100-183	9/18	AWG WH/BK, BK/WH, WH/GN, GN/WH, WH/RD, RD/WH, N/C, GN/YE, WH/OG, OG/WH
100-189	9/18	AWG WH/BK, BK/WH, WH/GN, GN/WH, WH/RD, RD/WH, N/C, GN/YE, WH/OG, OG/WH

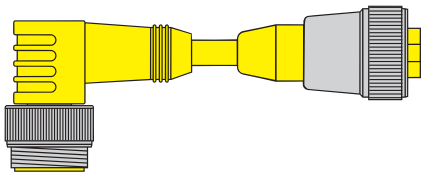
Extension Examples:

P - R S V | R K V | 40-180 - 4M



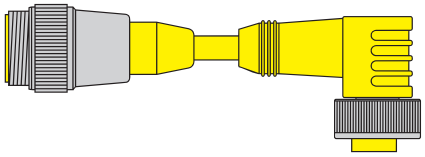
RSV .. - RKV ..

P - W S V | R K V | 40-180 - 4M



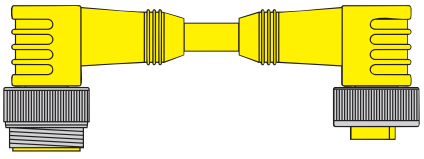
WSV .. - RKV ..

P - R S V | W K V | 40-180 - 4M



RSV .. - WKV ..

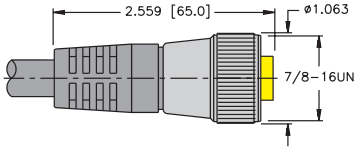
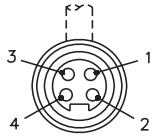
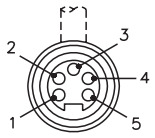
P - W S V | W K V | 40-180 - 4M



WSV .. - WKV ..

4 and 5-Wire *minifast*® Control Cordsets

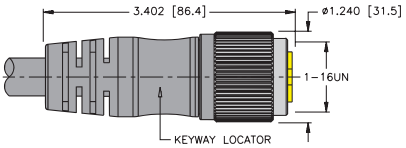
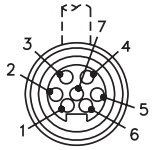
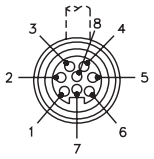
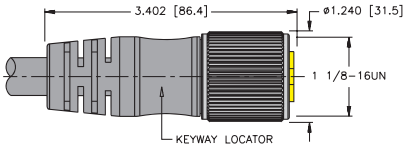
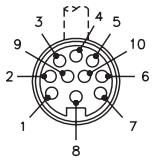
- **Straight Female Connectors**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

Housing	Part Number	Cable	Features	Pinouts	
	P-RKV 40-180-*M	**PVC Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51180-*M†**	***extremelife™-25 UL 1309 approved 2-wire Analog***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-RKV 40-181-*M	**PVC Black, Braided Armor 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 12.5 mm OD Cable #RF51181-*M†**	***extremelife-25 Braided Armor Cable UL 1309 approved 2-wire Analog***		
	P-RKV 40-188-*M	**TPE Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51188-*M†**	***extremelife-55 UL 1309 approved 2-wire Analog***		
	P-RKV 56-964-*M	**PVC Blue 5x18 AWG, Foil/Drain 90°C 300 V, 9 A 10.4 mm OD Cable #RF50964-*M†**	***extremelife-25 UL 1309 approved 5-wire shielded***	1. BK 2. BU 3. GN/YE 4. BN 5. WH	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is 316 stainless steel "P-RKV .."; "P-RKM .." indicates nickel plated brass.
† See section F for ***reelfast***® cable information.

7, 8, and 9-Wire *minifast*® Control Cordsets

- **Straight Female Connectors**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

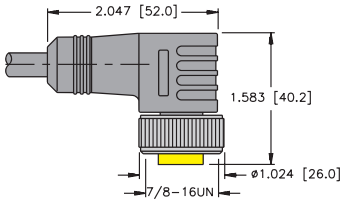
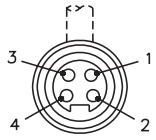
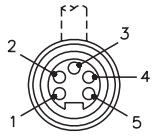
Housing	Part Number	Cable	Features	Pinout	
	P-RKV 70-182-*M	**PVC Black** **5x18 AWG, 2 STP with GND** **90°C** **300 V, 9 A** **10.4 mm OD** **Cable #RF51182-*M**†	***extremelife™-25*** ***UL 1309 approved*** ***2-wire Analog x 2***	1. BU 2. BN 3. Drain 4. WH 5. BK 6. Drain 7. GN/YE	
	P-RKV 80-073-*M	**PVC Blue, Braided Armor** **8x18 AWG, 4 STP** **90°C** **300 V, 9 A** **17.8 mm OD** **Cable #RF51073-*M**†	***extremelife-25*** ***Braided Armor*** ***Cable*** ***UL 1309 approved*** ***2-wire Analog x 4***	1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN	
	P-RKV 80-158-*M	**TPE Black** **8x18 AWG, 4 STP** **90°C** **300 V, 9 A** **15.1 mm OD** **Cable #RF51158-*M**†	***extremelife-55*** ***UL 1309 approved*** ***2-wire Analog x 4***		
	P-RKV 100-183-*M	**PVC Black** **9x18 AWG, 4 STP with GND** **90°C** **300 V, 7 A** **13.2 mm OD** **Cable #RF51183-*M**†	***extremelife-25*** ***UL 1309 approved*** ***2-wire Analog x 4***	1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. N/C 8. GN/YE 9. WH/OG 10. OG/WH	
	P-RKV 100-189-*M	**TPE Black** **9x18 AWG, 4 STP with GND** **90°C** **300 V, 7 A** **15.1 mm OD** **Cable #RF51189-*M**†	***extremelife-55*** ***UL 1309 approved*** ***2-wire Analog x 4***		

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is 316 stainless steel "P-RKV .."; "P-RKM .." indicates nickel plated brass.

† See section F for ***reelfast***® cable information.

4 and 5-Wire *minifast*® Control Cordsets

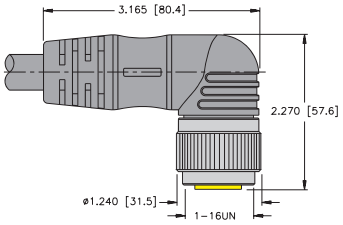
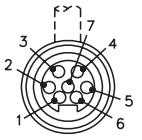
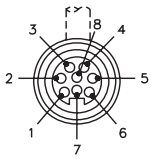
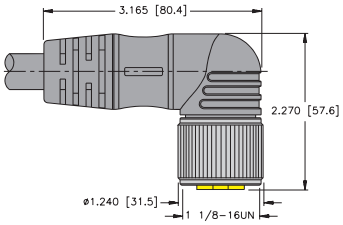
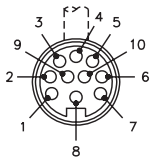
- **Right Angle Female Connectors**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

Housing	Part Number	Cable	Features	Pinouts	
	P-WKV 40-180-*M	**PVC Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51180-*M†**	***extremelife™-25 UL 1309 approved 2-wire Analog***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-WKV 40-181-*M	**PVC Black, Braided Armor 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 12.5 mm OD Cable #RF51181-*M†**	***extremelife-25 Braided Armor Cable UL 1309 approved 2-wire Analog***		
	P-WKV 40-188-*M	**TPE Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51188-*M†**	***extremelife-55 UL 1309 approved 2-wire Analog***		
	P-WKV 56-964-*M	**PVC Blue 5x18 AWG, Foil/Drain 90°C 300 V, 9 A 10.4 mm OD Cable #RF50964-*M†**	***extremelife-25 UL 1309 approved 5-wire shielded***	1. BK 2. BU 3. GN/YE 4. BN 5. WH	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is 316 stainless steel "P-WKV .."; "P-WKM .." indicates nickel plated brass.
† See section F for ***reelfast***® cable information.

7, 8, and 9-Wire *minifast*® Control Cordsets

- **Right Angle Female Connectors**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

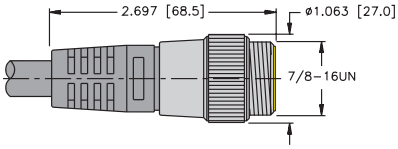
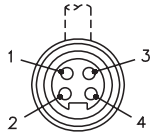
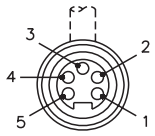
Housing	Part Number	Cable	Features	Pinouts	
	P-WKV 70-182-*M	**PVC Black** **5x18 AWG, 2 STP with GND** **90°C** **300 V, 9 A** **10.4 mm OD** **Cable #RF51182-*M†**	***extremelife™-25*** ***UL 1309 approved*** ***2-wire Analog x 2***	1. BU 2. BN 3. Drain 4. WH 5. BK 6. Drain 7. GN/YE	
	P-WKV 80-073-*M	**PVC Blue, Braided Armor** **8x18 AWG, 4 STP** **90°C** **300 V, 9 A** **17.8 mm OD** **Cable #RF51073-*M†**	***extremelife-25*** ***Braided Armor Cable*** ***UL 1309 approved*** ***2-wire Analog x 4***	1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN	
	P-WKV 80-158-*M	**TPE Black** **8x18 AWG, 4 STP** **90°C** **300 V, 9 A** **15.1 mm OD** **Cable #RF51158-*M†**	***extremelife-55*** ***UL 1309 approved*** ***2-wire Analog x 4***		
	P-WKV 100-183-*M	**PVC Black** **9x18 AWG, 4 STP with GND** **90°C** **300 V, 7 A** **13.2 mm OD** **Cable #RF51183-*M†**	***extremelife-25*** ***UL 1309 approved*** ***2-wire Analog x 4***	1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. N/C 8. GN/YE 9. WH/OG 10. OG/WH	
	P-WKV 100-189-*M	**TPE Black** **9x18 AWG, 4 STP with GND** **90°C** **300 V, 7 A** **15.1 mm OD** **Cable #RF51189-*M†**	***extremelife-55*** ***UL 1309 approved*** ***2-wire Analog x 4***		

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is 316 stainless steel "P-WKV .."; "P-WKM .." indicates nickel plated brass.

† See section F for ***reelfast***® cable information.

4 and 5-Wire *minifast*® Control Cordsets

- **Straight Male Connectors**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

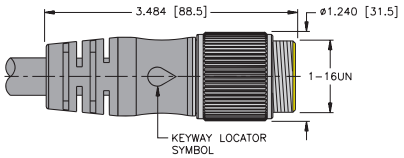
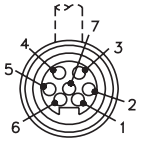
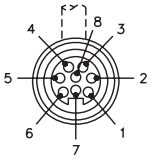
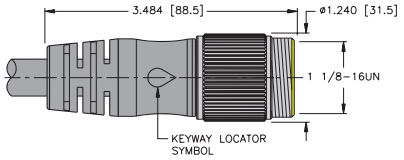
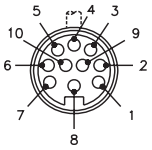
Housing	Part Number	Cable	Features	Pinouts	
	P-RSV 40-180-*M	**PVC Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51180-*M†**	***extremelife™-25 UL 1309 approved 2-wire Analog***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-RSV 40-181-*M	**PVC Black, Braided Armor 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 12.5 mm OD Cable #RF51181-*M†**	***extremelife-25 Braided Armor Cable UL 1309 approved 2-wire Analog***		
	P-RSV 40-188-*M	**TPE Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51188-*M†**	***extremelife-55 UL 1309 approved 2-wire Analog***		
	P-RSV 56-964-*M	**PVC Blue 5x18 AWG, Foil/Drain 90°C 300 V, 9 A 10.4 mm OD Cable #RF50964-*M†**	***extremelife-25 UL 1309 approved 5-wire shielded***	1. BK 2. BU 3. GN/YE 4. BN 5. WH	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is 316 stainless steel "P-RSV .."; "P-RSM .." indicates nickel plated brass.

† See section F for ***reelfast***® cable information.

7, 8, and 9-Wire *minifast*® Control Cordsets

- **Straight Male Connectors**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

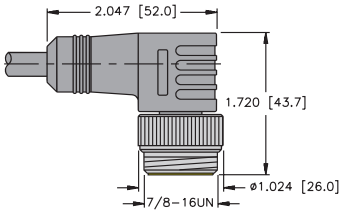
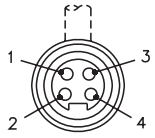
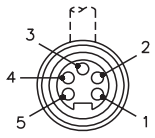
Housing	Part Number	Cable	Features	Pinouts	
	P-RSV 70-182-*M	**PVC Black 5x18 AWG, 2 STP with GND 90°C 300 V, 9 A 10.4 mm OD Cable #RF51182-*M†**	***extremelife™-25 UL 1309 approved 2-wire Analog x 2***	1. BU 2. BN 3. Drain 4. WH 5. BK 6. Drain 7. GN/YE	
	P-RSV 80-073-*M	**PVC Blue, Braided Armor 8x18 AWG, 4 STP 90°C 300 V, 9 A 17.8 mm OD Cable #RF51073-*M†**	***extremelife-25 Braided Armor Cable UL 1309 approved 2-wire Analog x 4***	1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN	
	P-RSV 80-158-*M	**TPE Black 8x18 AWG, 4 STP 90°C 300 V, 9 A 15.1 mm OD Cable #RF51158-*M†**	***extremelife-55 UL 1309 approved 2-wire Analog x 4***		
	P-RSV 100-183-*M	**PVC Black 9x18 AWG, 4 STP with GND 90°C 300 V, 7 A 13.2 mm OD Cable #RF51183-*M†**	***extremelife-25 UL 1309 approved 2-wire Analog x 4***	1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. N/C 8. GN/YE 9. WH/OG 10. OG/WH	
	P-RSV 100-189-*M	**TPE Black 9x18 AWG, 4 STP with GND 90°C 300 V, 7 A 15.1 mm OD Cable #RF51189-*M†**	***extremelife-55 UL 1309 approved 2-wire Analog x 4***		

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is 316 stainless steel "P-RSV .."; "P-RSM .." indicates nickel plated brass.

† See section F for ***reelfast***® cable information.

4 and 5-Wire *minifast*® Control Cordsets

- **Right Angle Male Connectors**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

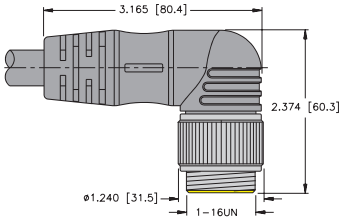
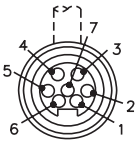
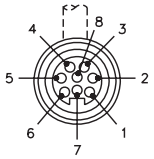
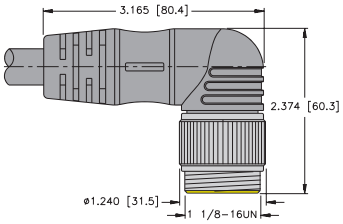
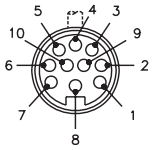
Housing	Part Number	Cable	Features	Pinouts	
	P-WSV 40-180-*M	**PVC Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51180-*M†**	***extremelife™-25 UL 1309 approved 2-wire Analog***	1. BU 2. BN 3. Drain 4. GN/YE	
	P-WSV 40-181-*M	**PVC Black, Braided Armor 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 12.5 mm OD Cable #RF51181-*M†**	***extremelife-25 Braided Armor Cable UL 1309 approved 2-wire Analog***		
	P-WSV 40-188-*M	**TPE Black 3x18 AWG, 1 STP with GND Foil/Drain 90°C 300 V, 9 A 8.4 mm OD Cable #RF51188-*M†**	***extremelife-55 UL 1309 approved 2-wire Analog***		
	P-WSV 56-964-*M	**PVC Blue 5x18 AWG, Foil/Drain 90°C 300 V, 9 A 10.4 mm OD Cable #RF50964-*M†**	***extremelife-25 UL 1309 approved 5-wire shielded***	1. BK 2. BU 3. GN/YE 4. BN 5. WH	

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is 316 stainless steel "P-WSV .."; "P-WSM .." indicates nickel plated brass.

† See section F for ***reelfast***® cable information.

7, 8 and 9-Wire *minifast*® Control Cordsets

- **Right Angle Male Connectors**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

Housing	Part Number	Cable	Features	Pinouts	
	P-WSV 70-182-*M	**PVC Black 5x18 AWG, 2 STP with GND 90°C 300 V, 9 A 10.4 mm OD Cable #RF51182-*M†**	***extremelife-25 UL 1309 approved 2-wire Analog x 2***	1. BU 2. BN 3. Drain 4. WH 5. BK 6. Drain 7. GN/YE	
	P-WSV 80-073-*M	**PVC Blue, Braided Armor 8x18 AWG, 4 STP 90°C 300 V, 9 A 17.8 mm OD Cable #RF51073-*M†**	***extremelife-25 Braided Armor Cable UL 1309 approved 2-wire Analog x 4***	1. BK 2. WH 3. BU 4. RD 5. YE 6. BN 7. GY 8. GN	
	P-WSV 80-158-*M	**TPE Black 8x18 AWG, 4 STP 90°C 300 V, 9 A 15.1 mm OD Cable #RF51158-*M†**	***extremelife-55 UL 1309 approved 2-wire Analog x 4***		
	P-WSV 100-183-*M	**PVC Black 9x18 AWG, 4 STP with GND 90°C 300 V, 7 A 13.2 mm OD Cable #RF51183-*M†**	***extremelife™-25 UL 1309 approved 2-wire Analog x 4***	1. WH/BK 2. BK/WH 3. WH/GN 4. GN/WH 5. WH/RD 6. RD/WH 7. N/C 8. GN/YE 9. WH/OG 10. OG/WH	
	P-WSV 100-189-*M	**TPE Black 9x18 AWG, 4 STP with GND 90°C 300 V, 7 A 15.1 mm OD Cable #RF51189-*M†**	***extremelife-55 UL 1309 approved 2-wire Analog x 4***		

* Length in meters. Standard cable lengths are 2, 4, 6, 8 and 10 meters. Consult factory for other lengths.
Standard coupling nut material is 316 stainless steel "P-WSV .."; "P-WSM .." indicates nickel plated brass.

† See section F for ***reelfast***® cable information.

Notes:

2-Wire Analog or HART Control Circuit Cable Selection Guide

Diagram A

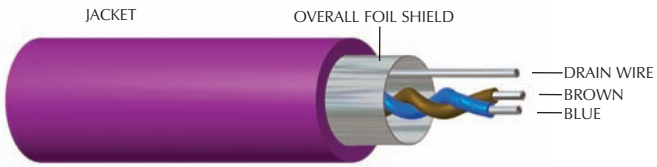


Diagram B

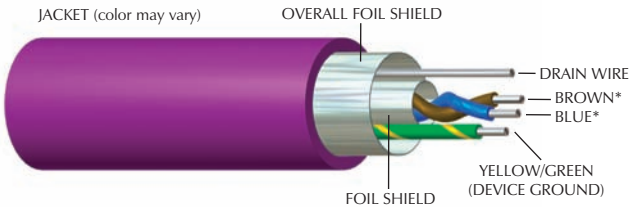


Diagram C

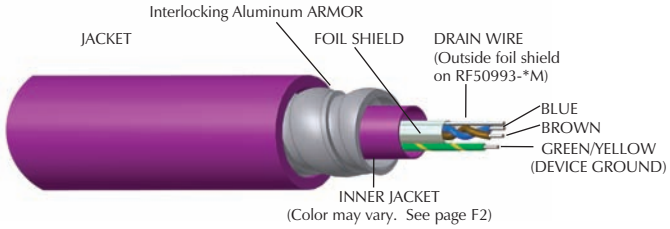
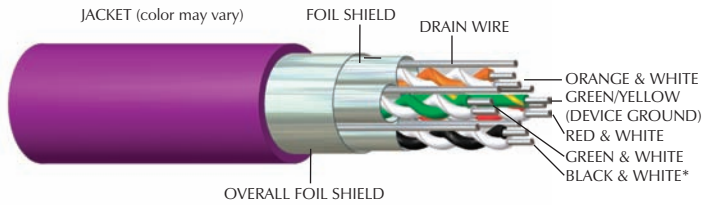


Diagram D



Up to 8 STP. See page F2 for details.

* Conductor colors may vary. See table on page F2 for details.

STP = Shielded Twisted Pair
Note: See page F2 for corresponding bulk cable specifications.

2-Wire Analog or HART Control Circuit Cable Selection Guide

Diagram	No. of Cond.	AWG	Jacket Characteristics	ID Number	Ship Wt. (lbs)	Conductor Colors	Shield	UL	CSA	Type	MSHA	Temp. (°C)
A	2	18	PVC Plum 300 V 7.2 mm OD	RF51026-30M RF51026-100M RF51026-200M	5 17 34	1 pair = (BU, BN), Drain (20)	STP Foil/Drain	*	*	ITC/PLTC		105° -25°
B	3	16	PVC Plum 300 V 7.6 mm OD	RF51098-30M RF51098-100M RF51098-200M	7 22 44	1 pair = (WH, BK), GN, Drain (18)	STP Foil/Drain	*	*	ITC/PLTC		105° -25°
B	3	16	PVC Blue 300 V 7.6 mm OD	RF51327-30M RF51327-100M RF51327-200M	7 22 44	1 pair = (WH, BK), GN, Drain (18)	STP Foil/Drain	*	*	ITC/PLTC		105° -25°
B	3	18	PVC Blue 300 V 7.2 mm OD	RF51330-30M RF51330-100M RF51330-200M	6 19 38	1 pair = (BU, BN), GN/YE, Drain (20)	STP Foil/Drain	*	*	ITC-Exposed Run/Direct Burial/PLTC		105° -25°
C	3	18	PVC ARMOR Plum 300 V 13.5 mm OD	RF50947-30M RF50947-100M RF50947-200M	14 47 94	1 pair = (BU, BN), GN/YE, Drain (20)	STP Foil/Drain	*	*	ITC/PLTC		105° -25°
B	3	18	PVC Plum 300 V 7.2 mm OD	RF50949-30M RF50949-100M RF50949-200M	6 19 38	1 pair = (BU, BN), GN/YE, Drain (20)	STP Foil/Drain	*	*	ITC/PLTC		105° -25°
B	3	18	PVC Plum 300 V 7.2 mm OD	RF51162-30M RF51162-100M RF51162-200M	6 19 38	1 pair = (BU, BN), GN/YE, Drain (20)	STP Foil/Drain	*	*	ITC-Exposed Run/Direct Burial/PLTC		105° -25°
B	3	18	PVC Plum 300 V 7.2 mm OD	RF51124-30M RF51124-100M RF51124-200M	6 19 38	1 pair = (RD, BK), GN/YE, Drain (20)	STP Foil/Drain	*	*	ITC/PLTC		105° -25°
B	3	18	PVC BU 300 V 7.2 mm OD	RF50950-30M RF50950-100M RF50950-200M	6 19 38	1 pair = (BU, BN), GN/YE, Drain (20)	Foil/Drain	*	*	ITC/PLTC		105° -25°
C	3	22	PVC ARMOR Plum 11.2 mm OD	RF50993-30M RF50993-100M RF50993-200M	11 34 68	1 pair = (BU, BN), GN/YE, Drain (24)	STP Foil/Drain	*	*	ITC/PLTC		105° -25°
D	9	18 22	PVC Plum 300 V 10 mm OD	RF51229-30M RF51229-100M RF51229-200M	9 30 60	4 pair/22 AWG = (WH/BK, BK/WH), (WH/GN, GN/WH), (WH/RD, RD/WH), (WH/OG, OG/WH), 18 AWG=GN/YE, Drains (5x22)	STP Foil/Drain	*	*	ITC-Exposed Run/Direct Burial/PLTC		105° -25°
D	9	18 22	PVC Plum 300 V 10 mm OD	RF50960-30M RF50960-100M RF50960-200M	9 30 60	4 pair/22 AWG = (WH/BK, BK/WH), (WH/GN, GN/WH), (WH/RD, RD/WH), (WH/OG, OG/WH), 18 AWG = GN/YE, Drains (5x22)	STP Foil/Drain	*	*	ITC/PLTC		105° -25°
D	17	18 22	PVC Plum 300 V 12 mm OD	RF50959-30M RF50959-100M RF50959-200M	14 45 90	8 pair/22 AWG = (WH/BK, BK/WH), (WH/GN, GN/WH), (WH/RD, RD/WH), (WH/OG, OG/WH), (WH/BU, BU/WH), (WH/BN, BN/WH), (WH/YE, YE/WH), (WH/VT, VT/WH), 18 AWG = GN/YE, Drains (9x22)	STP Foil/Drain	*	*	ITC/PLTC		105° -25°
D	17	18 22	PVC Plum 300 V 12.7 mm OD	RF51230-30M RF51230-100M RF51230-200M	17 55 110	8 pair/22 AWG = (WH/BK, BK/WH), (WH/GN, GN/WH), (WH/RD, RD/WH), (WH/OG, OG/WH), (WH/BU, BU/WH), (WH/BN, BN/WH), (WH/YE, YE/WH), (WH/VT, VT/WH), 18 AWG = GN/YE, Drains (9x22)	STP Foil/Drain	*	*	ITC-Exposed Run/Direct Burial/PLTC		105° -25°
D	8	22	PVC BU 300 V 10 mm OD	RF50978-30M RF50978-100M RF50978-200M	9 30 60	4 Pair = (WH/BK, BK/WH), (WH/GN, GN/WH), (WH/RD, RD/WH), (WH/OG, OG/WH), GN/YE, Drain (22)	4 STP Foil/Drain	*	*	ITC/PLTC		105° -25°
D	16	22	PVC BU 300 V 12 mm OD	RF50977-30M RF50977-100M RF50977-200M	14 45 90	8 Pair = (WH/BK, BK/WH), (WH/GN, GN/WH), (WH/RD, RD/WH), (WH/OG, OG/WH), (WH/BU, BU/WH), (WH/BN, BN/WH), (WH/YE, YE/WH), (WH/VT, VT/WH), GN/YE, Drain (22)	8 STP Foil/Drain	*	*	ITC/PLTC		105° -25°

STP = Shielded Twisted Pair.

reelfast

Additional Analog or Discrete Control Circuit Cable Selection Guide

Diagram A

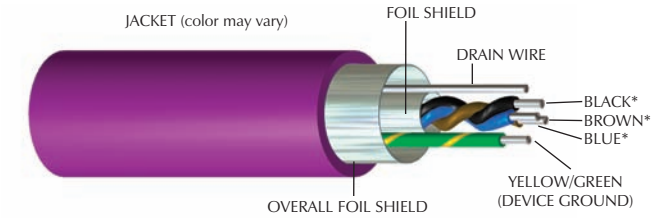


Diagram B

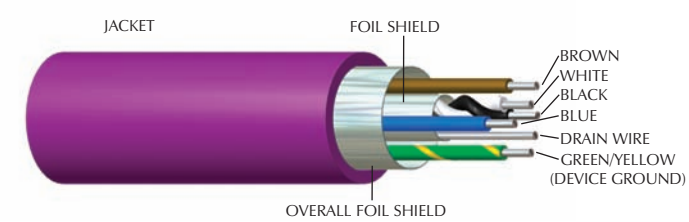


Diagram C

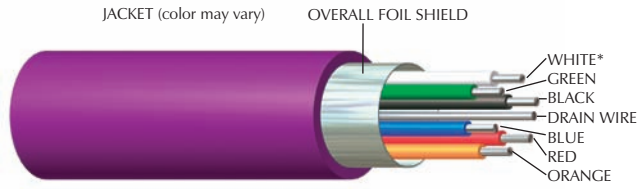


Diagram D

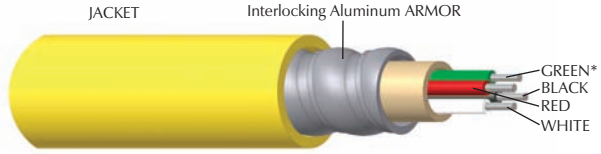
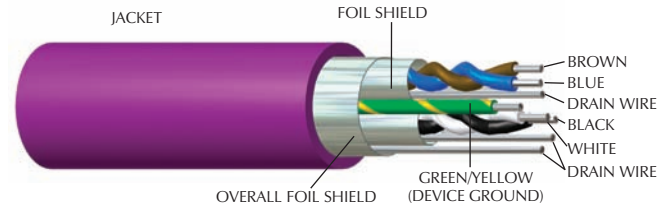


Diagram E



* Conductor colors may vary. See table on page F4 for details.
STP = Shielded Twisted Pair
Note: See page F4 for corresponding bulk cable specifications.

Additional Analog or Discrete Control Circuit Cable Selection Guide

Photo/Diagram	No. of Cond.	AWG	Jacket Characteristics	ID Number	Ship Wt. (lbs)	Conductor Colors	Shield	UL	CSA	Type	MSHA	Temp.
	3	18	PVC YE 300 V 7.2 mm OD	RF50880-30M RF50880-100M RF50880-200M	6 18 35	BN, BU, GN/YE		*	*	ITC/PLTC		105° -25°
	3	18	PVC GY 300 V 7.2 mm OD	RF51187-30M RF51187-100M RF51187-200M	6 18 36	BK, WH, GN		*	*	ITC/PLTC		105° -25°
A	4	16	PVC Plum 300 V 10.4 mm OD	RF51099-30M RF51099-100M RF51099-200M	10 32 64	Triad = (WH, RD, BK), GN, Drain (18)	Triad Foil/Drain	*	*	ITC/PLTC		105° -25°
A	4	16	PVC BU 300 V 10.4 mm OD	RF51328-30M RF51328-100M RF51328-200M	10 32 64	Triad = (WH, RD, BK), GN, Drain (18)	Triad Foil/Drain	*	*	ITC/PLTC		105° -25°
A	4	18	PVC Plum 300 V 8.1 mm OD	RF51108-30M RF51108-100M RF51108-200M	7 21 42	Triad = (BU, BN, BK), GN/YE, Drain (20)	Triad Foil/Drain	*	*	ITC/PLTC		105° -25°
D	4	18	ARMOR PVC YE 600 V 13.5 mm OD	RF51041-30M RF51041-100M RF51041-200M	11 36 71	BK, WH, RD, GN		*	*	UL 1569 MC, ITC/PLTC		105° -25°
	4	22	PVC GY 300 V 5.2 mm OD	RF50698-30M RF50698-100M RF50698-200M	3 9 18	BN, WH, BU, BK		*	*	ITC/PLTC		105° -25°
C	4	22	PUR BK 300 V 6.9 mm OD	RF51095-30M RF51095-100M RF51095-200M	4 14 28	BN, WH, BU, BK, Drain (22)	Foil/Drain	*	*	ITC/PLTC		105° -60°
B	5	16	PVC Plum 300 V 12.5 mm OD	RF51025-30M RF51025-100M RF51025-200M	15 49 98	1 pair = (WH, BK), BU, BN, GN/YE, Drain (18)	STP Foil/Drain	*	*	ITC/PLTC		105° -25°
	5	18	PVC GY 300 V 7.2 mm OD	RF50972-30M RF50972-100M RF50972-200M	7 21 42	BK, WH, GY, BN, BU		*	*	ITC/PLTC		105° -25°
E	5	18	PVC Plum 300 V 7.9 mm OD	RF51318-30M RF51318-100M RF51318-200M	8 26 53	2 pair = (BK, WH), (BU, BN), GN/YE, Drain (20)	STP Foil/Drain	*	*	ITC-Exposed Run/Direct Burial/PLTC		105° -25°
C	6	16	PVC BU 300 V 9.6 mm OD	RF50329-30M RF50329-100M RF50329-200M	11 36 72	WH, RD, GN, OG, BK, BU, Drain (18)	Foil/Drain	*	*	ITC/PLTC		105° -25°
	6	16	PVC YE 600 V 9.6 mm OD	RF51030-30M RF51030-100M RF51030-200M	11 34 68	BK, WH, RD, OG, BU, GN		*	*	ITC/PLTC		105° -25°
	6	16	PVC Plum 300 V 11.2 mm OD	RF51233-30M RF51233-100M RF51233-200M	13 45 90	WH, RD, GN, OG, BK, BU		*	*	ITC-Exposed Run/Direct Burial/PLTC		105° -25°
C	6	16	PVC Plum 300 V 9.6 mm OD	RF51219-30M RF51219-100M RF51219-200M	11 36 72	WH, RD, GN, OG, BK, BU, Drain (18)	Foil/Drain	*	*	ITC/PLTC		105° -25°
C	11	18	PVC YE 300 V 10 mm OD	RF51088-30M RF51088-100M RF51088-200M	13 42 84	GN, YE, GY, PK, RD, BK, VT, BU, WH, BN, GN/YE, Drain (20)	Foil/Drain	*	*	ITC/PLTC		105° -25°

STP = Shielded Twisted Pair.

reelfast

Intrinsically Safe NAMUR Circuit Cable Selection Guide

Photo	No. of Cond.	AWG	Jacket Characteristics	ID Number	Ship Wt. (lbs)	Conductor Colors	Shield	UL	CSA	Type	MSHA	Temp. (°C)
	2	20	**PVC BU 300 V 5.15 mm OD**	RF20003-30M RF20003-100M RF20003-200M	3 10 19	BN, BU		*	*	**AWM 2517**	*	**105° -50°**
	2	20	**PUR BU 300 V 5.2 mm OD**	RF50657-30M RF50657-100M RF50657-200M	3 8 16	BN, BU		*	*	**AWM 21002**		**105° -60°**
	4	22	**PVC BU 300 V 5.2 mm OD**	RF50598-30M RF50598-100M RF50598-200M	3 9 18	BN, WH, BU, BK		*	*	**AWM 2517**	*	**105° -50°**
	5	22	**PVC BU 300 V 6.8 mm OD**	RF50767-30M RF50767-100M RF50767-200M	5 15 29	WH, BK, GN, RD, OG		*	*	**PLTC**	*	**105° -30°**
	5	24	**PUR BU 300 V 5.7 mm OD**	RF50928-30M RF50928-100M RF50928-200M	4 11 20	BU, OG, RD, YE, BK, Drain (24)	**Foil/Drain**	*	*	**AWM 21002**		**105° -60°**
	9	22	**PVC BU 300 V 6.9 mm OD**	RF50741-30M RF50741-100M RF50741-200M	5 13 26	WH, BK, GN, RD, OG, BU, BN, YE, VT		*	*	**PLTC**		**105° -25°**
	16	22	**PVC BU 300 V 8.3 mm OD**	RF50744-30M RF50744-100M RF50744-200M	8 25 50	WH, BK, GN, RD, OG, BU, BN, YE, VT, GY, PK, TN, WH/BK, WH/GN, WH/RD, WH/BU		*	*	**PLTC**		**105° -25°**

Notes:

Control *extremelife*™ Cable Selection Guide

- **UL 1309 Approved**
- **ABS Approved**
- **Marine Shipboard**

Diagram A

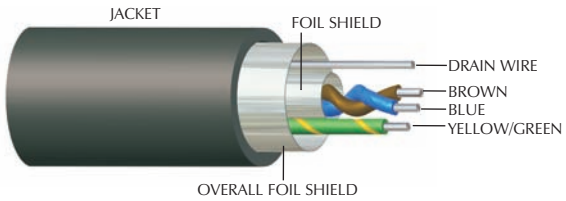
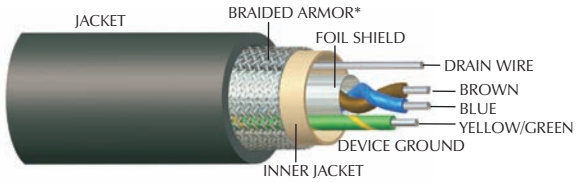


Diagram B



*AVAILABLE ON SOME CABLE TYPES

Diagram C

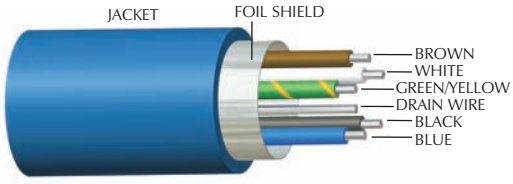


Diagram D

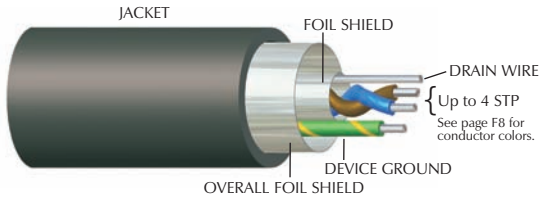
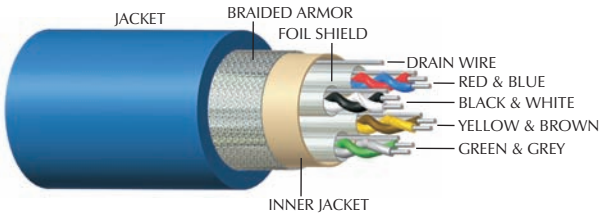


Diagram E



STP = Shielded Twisted Pair
Note: See page F8 for corresponding bulk cable specifications.

Diagram	No. of Cond.	AWG	Jacket Characteristics	ID Number	Ship Wt. (lbs)	Conductor Colors	Shield	UL	CSA	Type	Temp. (°C)
A	3	18	PVC BK 300 V 8.4 mm OD ***extremelife™-25***	RF51180-30M RF51180-100M RF51180-200M	**7** **21** **42**	1 pair = (BU, BN), GN/YE, Drain (20)	STP Foil/Drain	*	*	**A**	105° -40°
B	3	18	PVC, ARMOR, BK 300 V 12.5 mm OD ***extremelife-25***	RF51181-30M RF51181-100M RF51181-200M	**17** **57** **114**	1 pair = (BU, BN), GN/YE, Drain (20)	STP Foil/Drain	*	*		105° -40°
A	3	18	TPE BK 300 V 8.4 mm OD ***extremelife-55***	RF51188-30M RF51188-100M RF51188-200M	**6** **20** **40**	1 pair = (BU, BN), GN/YE, Drain (20)	STP Foil/Drain	*	*	**B**	105° -55°
C	5	18	PVC BU 300 V 10.4 mm OD ***extremelife-25***	RF50964-30M RF50964-100M RF50964-200M	**10** **33** **66**	BN, WH, BK, BU, GN/YE, Drain (20)	Foil/Drain	*	*		105° -40°
D	5	18	PVC BK 300 V 10.4 mm OD ***extremelife-25***	RF51182-30M RF51182-100M RF51182-200M	**10** **32** **64**	2 pair = (BN, BU), (BK, WH), GN/YE, Drain (2 x 20)	STP Foil/Drain	*	*	**A**	105° -40°
E	8	18	PVC, ARMOR, BU 300 V 17.8 mm OD ***extremelife-25***	RF51073-30M RF51073-100M RF51073-200M	**31** **103** **206**	4 pair = (BK, WH), (BU, RD), (YE, BN), (GY, GN), Drains (4 x 20)	STP Foil/Drain	*	*		105° -40°
D	8	18	TPE BK 300 V 15.1 mm OD ***extremelife-55***	RF51158-30M RF51158-100M RF51158-200M	**18** **60** **120**	4 pair = (BK, WH), (BU, RD), (YE, BN), (GY, GN), Drains (5 x 20)	STP Foil/Drain	*	*	**B**	105° -55°
D	9	18	PVC BK 300 V 13.2 mm OD ***extremelife-25***	RF51183-30M RF51183-100M RF51183-200M	**16** **52** **104**	4 pair = (WH/BK, BK/WH), (WH/GN, GN/WH), (WH/RD, RD/WH), (WH/OG, OG/WH), GN/YE, Drains (4 x 20)	STP Foil/Drain	*	*	**A**	105° -40°
D	9	18	TPE BK 300 V 15.1 mm OD ***extremelife-55***	RF51189-30M RF51189-100M RF51189-200M	**19** **60** **120**	4 pair = (WH/BK, BK/WH), (WH/GN, GN/WH), (WH/RD, RD/WH), (WH/OG, OG/WH), GN/YE, Drains (4 x 20)	STP Foil/Drain	*	*	**B**	105° -55°

STP = Shielded Twisted Pair

Type A - All *extremelife-25* Cables

- Marine Shipboard
- UL1309
- IEEE 1202/FT4
- IEEE 45-1998
- IEEE 1580-2001
- IEC 332-3
- ITC
- ABS App.No. 03-HS400-763-PDA

Type B - All *extremelife-55* Cables

- Marine Shipboard
- UL1309
- ITC
- ABS App.No. 03-HS400-763-PDA

General Accessories





M12 *eurofast*® Thread	*lokfast* Guard	Conduit Adapters	Conduit Adapter Ground Ring	Field Wireables	Closure Caps
Pages	G3	G5	G9	G15 - G18	G28 - G29





7/8", 1, & 1-1/8" *minifast*® Thread	*lokfast* Guard	Conduit Adapters	Conduit Adapter Ground Ring	Field Wireables	Closure Caps
Pages	G2	G6 - G7	G9	G11 - G14	G25 - G27


M23 *multifast*® Thread	Conduit Adapters	Field Wireables	Assembly Tools and Closure Caps
Pages	G8	G19 - G24	G30

minifast® *lokfast* Guards

- **Straight and Right Angle *minifast* Style Connectors**
- **Nylon**

Part Number	Application
LOCK-MINI	Locking guard for straight ***minifast*** standard body connectors (RKM, RKV, RSM and RSV) in Class I, Division 2 installations*
LOCK-MINI (10/BAG)	
LOCK-MINI-ANGLE	Locking guard for right angle ***minifast*** standard body connectors (WKM, WKV, WSM and WSV) in Class I, Division 2 installations*
LOCK-MINI-ANGLE (10/BAG)	
LOCK-MINI-FW	Locking guard for straight ***minifast*** field wireable connectors (BS 41..., and B 41...) in Class I, Division 2 installations*
LOCK-MINI-FW (10/BAG)	
LOCK-MINI-B&C	Locking guard for straight ***minifast*** **"B" Style** and **"C" Style** connectors (RKM, RKV, RSM and RSV) in Class I, Division 2 installations*
LOCK-MINI-B&C (10/BAG)	
LOCK-MINI-B&C-ANGLE	Locking guard for right angle ***minifast*** **"B" Style** and **"C" Style** connectors (WKM, WKV, WSM and WSV) in Class I, Division 2 installations*
LOCK-MINI-B&C-ANGLE (10/BAG)	

* See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd/) for guidance on installation in hazardous locations.

***lokfast* Open**

***lokfast* Closed**

eurofast® *lokfast*™ Guards

- Straight and Right Angle *eurofast* Style Connectors
- Nylon

Part Number	Application
LOCK-EURO-G	*Locking guard for straight eurofast G-body connectors (RKG, RKGV, RSG and RSGV) in Class I, Division 2 installations**
LOCK-EURO-G (10/BAG)	
LOCK-EURO-R	*Locking guard for straight eurofast R-body connectors (RKR, RKRV, RSR and RSRV) in Class I, Division 2 installations**
LOCK-EURO-R (10/BAG)	
LOCK-EURO-FW	*Locking guard for straight eurofast field wireable connectors (B81.., BS81.. and BM81..) in Class I, Division 2 installations**
LOCK-EURO-FW (10/BAG)	

* See **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd/) for guidance on installation in hazardous locations.

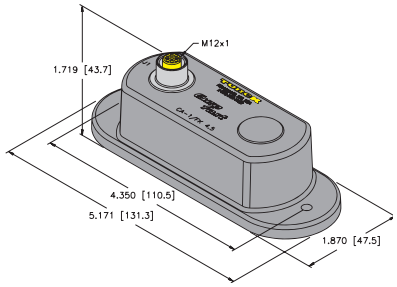
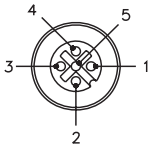
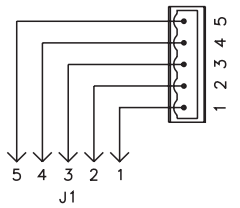
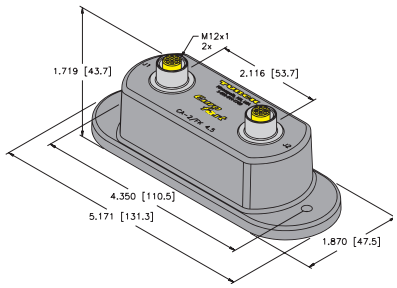
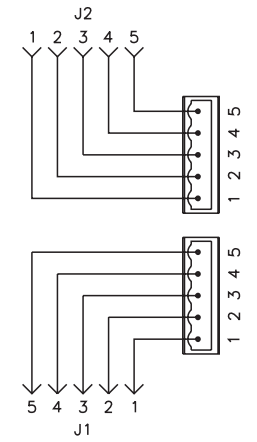
***lokfast* Open**

***lokfast* Closed**

Notes:

eurofast® Conduit Adapters

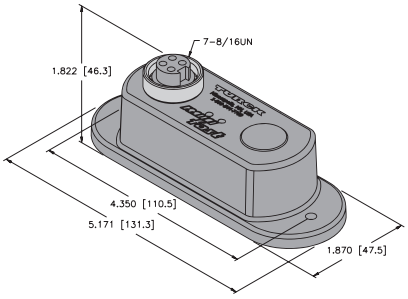
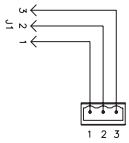
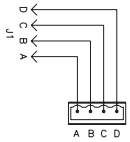
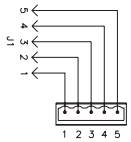
- **Attaches to Standard Crouse-Hinds 3/4" Form 8 Conduit Bodies for Transition to 5-Wire *eurofast*® Connectors**
- **Gasket and 8-32 x 1/2 Mounting Screws Included**
- **IP 67 Protection (only when all receptacles are mated or covered with plugs)**
- **Terminal Strips Accept Up to 12 AWG Wires**

Drawing	Part Number	Specs	Application	Pinout	Wiring Diagrams
	CA-1/FK 4.5	Nylon housing 80°C 250 V, 4 A	*Attaches to standard conduit body for transition to 5-wire eurofast connector*		
	CA-2/FK 4.5				

Standard receptacle housing material is nickel plated brass "CA-1(2)/FK 4.5"; "CA-1(2)/FKV 4.5" indicates stainless steel.

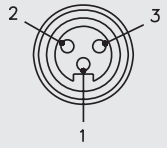
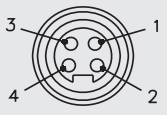
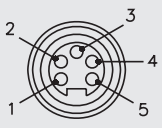
minifast® Conduit Adapters, 1 Port

- **Attaches to Standard Crouse-Hinds 3/4" Form 8, Mark 9 Conduit Bodies for Transition to 3 and 5-Wire *minifast* Connectors**
- **Gasket and 8-32 x 1/2 Mounting Screws**
- **IP 67 Protection (only when all receptacles are mated or covered with plugs)**
- **Terminal Strips Accept Up to 12 AWG Wires**

Drawing	Part Number	Specs	Application	Wiring Diagrams
	CA-1/RKF 30	Nylon Housing 80°C 250 V, 9 A	*Attaches to standard conduit body for transition to 3-wire minifast connector*	
	CA-1/RKF 40		*Attaches to standard conduit body for transition to 4-wire minifast connector*	
	CA-1/RKF 50		*Attaches to standard conduit body for transition to 5-wire minifast connector*	

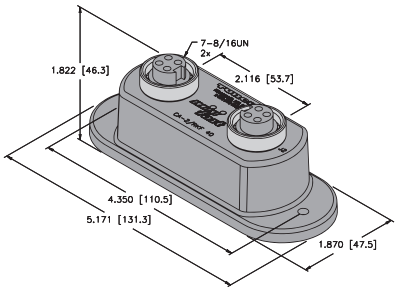
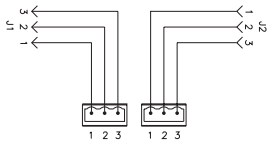
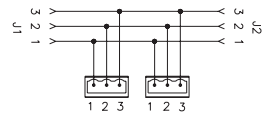
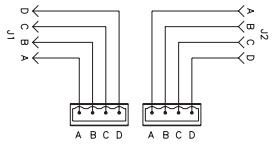
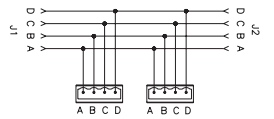
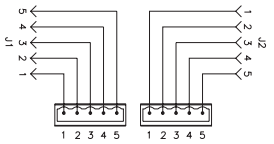
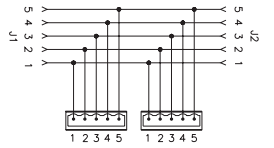
Standard receptacle housing material is nickel plated brass.."RKF"; "RKFV" indicates 316 stainless steel.
Example: CA-1/RKFV 50.

Pinouts

Female		
		
3-Pin	**4-Pin**	**5-Pin**

minifast® Conduit Adapters, 2 Port

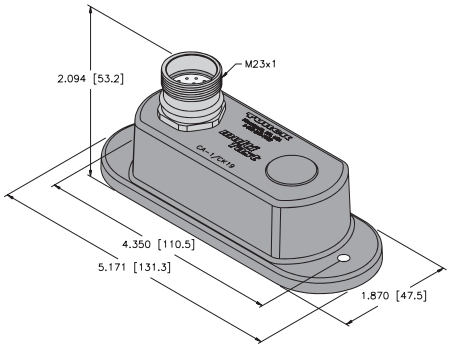
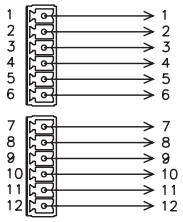
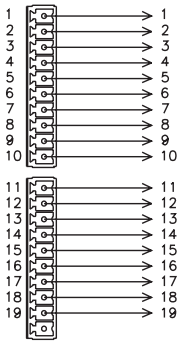
- **Attaches to Standard Crouse-Hinds 3/4" Form 8, Mark 9 Conduit Bodies for Transition to 3-5 Wire *minifast* Connectors**
- **Gasket and 8-32 x 1/2 Mounting Screws**
- **IP 67 Protection (only when all receptacles are mated or covered with plugs)**
- **Terminal Strips Accept Up to 12 AWG Wires**

Drawing	Part Number	Specs	Application	Wiring Diagrams
	CA-2/RKF 30	Nylon Housing 80°C 250 V, 9 A	*Attaches to standard conduit body for transition to 3-wire minifast connector.*	
	CA-2/RKF 30/S651		*Attaches to standard conduit body for transition to 3-wire minifast connector, parallel wired.*	
	CA-2/RKF 40		*Attaches to standard conduit body for transition to 4-wire minifast connector.*	
	CA-2/RKF 40/S651		*Attaches to standard conduit body for transition to 4-wire minifast connector, parallel wired.*	
	CA-2/RKF 50		*Attaches to standard conduit body for transition to 5-wire minifast connector.*	
	CA-2/RKF 50/S651		*Attaches to standard conduit body for transition to 5-wire minifast connector, parallel wired.*	

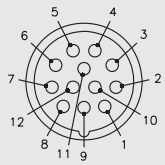
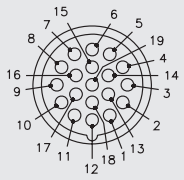
Standard receptacle housing material is nickel plated brass.."RKF"; "RKFV" indicates 316 stainless steel.
Example: CA-2/RKFV 50.
For pinouts see bottom of page G6.

multifast® Conduit Adapters, 1 Port

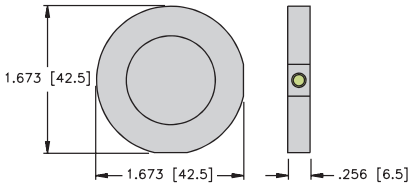
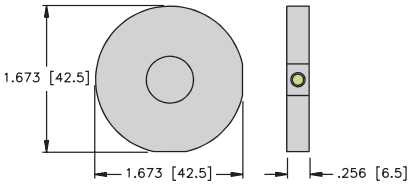
- Attaches to Standard Crouse-Hinds 3/4" Form 8, Mark 9 Conduit Bodies for Transition to 12 and 19-Pin *multifast* Connectors
- Gasket and 8-32 x 1/2 Mounting Screws Included
- IP 67 Protection (only when all receptacles are mated or covered with plugs)
- Terminal Strips Accept Up to 14 AWG Wires

Drawing	Part Number	Specs	Application	Wiring Diagrams
	CA-1/CK 12	Nylon housing Nickel plated brass receptacle housing 80°C 300 V, 4 A	*Attaches to standard conduit body for transition to 12-pin multifast connector.*	
	CA-1/CKV 12	Nylon housing Stainless steel receptacle housing 80°C 300 V, 4 A		
	CA-1/CK 19	Nylon housing Nickel plated brass receptacle housing 80°C 150 V, 4 A	*Attaches to standard conduit body for transition to 19-pin multifast connector.*	
	CA-1/CKV 19	Nylon housing Stainless steel receptacle housing 80°C 150 V, 4 A		

Pinouts

Female	
	
12-Pin	**19-Pin**

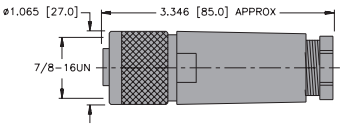
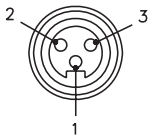
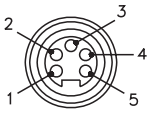
multifast® Conduit Adapter Ground Rings

Drawing	Part Number	Specs	Application
	CA GROUND RING - MINI FEMALE	**Nickel plated brass plating** **Stainless steel** **Ground + Set screw material**	***Grounding of coupling nuts of armored cordsets***
	CA GROUND RING - EURO FEMALE		

Notes:

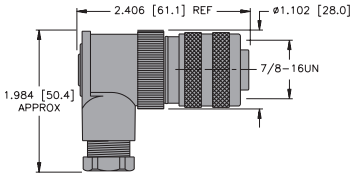
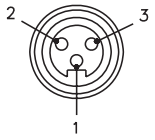
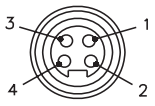
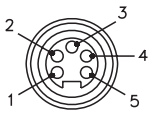
3, 4 and 5-Pin *minifast*® Field Wireable Connectors

- Straight Female Connectors
- NEMA 1, 3, 4, 6P and IEC IP 67 Protection

Drawing Number	Part Number	Housing Specs.	Application	Pinout
	B 4131-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 12 A	*Mates with all 3-pin cordsets and receptacles*	
	B 4131-0/13.5	Glass filled nylon PG 13.5 cable gland, accepts 10-12 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 12 A	*Mates with all 3-pin cordsets and receptacles*	
	B 4141-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	*Mates with all 4-pin cordsets and receptacles*	
	B 4141-0/13.5	Glass filled nylon PG 13.5 cable gland, accepts 10-12 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	*Mates with all 4-pin cordsets and receptacles*	
	B 4151-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	*Mates with all 5-pin cordsets and receptacles*	
	B 4151-0/13.5	Glass filled nylon PG 13.5 cable gland, accepts 10-12 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	*Mates with all 5-pin cordsets and receptacles*	
	B 4151-0/16	Glass filled nylon PG 16 cable gland, accepts 12-14 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	*Mates with all 5-pin cordsets and receptacles*	

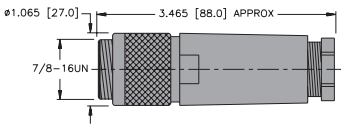
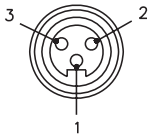
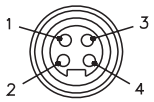
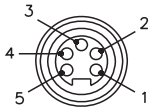
3, 4 and 5-Pin *minifast*® Field Wireable Connectors

- **Right Angle Female Connectors**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

Drawing Number	Part Number	Housing Specs.	Application	Pinout
	B 4231-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 12 A	*Mates with all 3-pin cordsets and receptacles*	
	B 4241-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	*Mates with all 4-pin cordsets and receptacles*	
	B 4251-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	*Mates with all 5-pin cordsets and receptacles*	

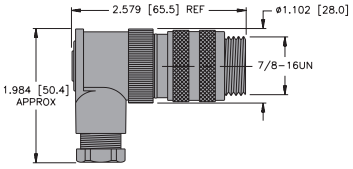
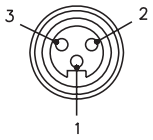
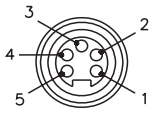
3, 4 and 5-Pin *minifast*® Field Wireable Connectors

- **Straight Male Connectors**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

Drawing Number	Part Number	Housing Specs.	Application	Pinout
	BS 4131-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85° C 250 V, 12 A	*Mates with all 3-pin cordsets and receptacles*	
	BS 4131-0/13.5	Glass filled nylon PG 13.5 cable gland, accepts 10-12 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 12 A	*Mates with all 3-pin cordsets and receptacles*	
	BS 4141-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	*Mates with all 4-pin cordsets and receptacles*	
	BS 4141-0/13.5	Glass filled nylon PG 13.5 cable gland, accepts 10-12 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	*Mates with all 4-pin cordsets and receptacles*	
	BS 4151-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	*Mates with all 5-pin cordsets and receptacles*	
	BS 4151-0/13.5	Glass filled nylon PG 13.5 cable gland, accepts 10-12 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	*Mates with all 5-pin cordsets and receptacles*	
	BS 4151-0/16	Glass filled nylon PG 16 cable gland, accepts 12-14 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	*Mates with all 5-pin cordsets and receptacles*	

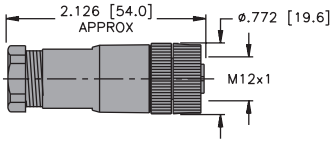
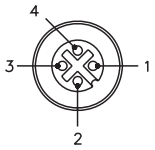
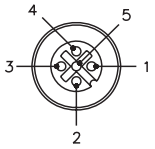
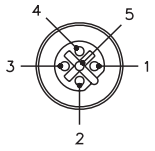
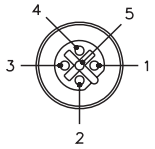
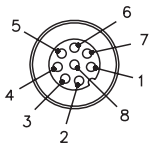
3, 4 and 5-Pin *minifast*® Field Wireable Connectors

- **Right Angle Male Connectors**
- **NEMA 1, 3, 4, 6P and IEC IP 67 Protection**

Drawing Number	Part Number	Housing Specs.	Application	Pinout
	BS 4231-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 12 A	*Mates with all 3-pin cordsets and receptacles*	
	BS 4241-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	*Mates with all 4-pin cordsets and receptacles*	
	BS 4251-0/9	Glass filled nylon PG 9 cable gland, accepts 6-8 mm cable diameter Screw terminals, accepts up to 16 AWG conductors 85°C 250 V, 9 A	*Mates with all 5-pin cordsets and receptacles*	

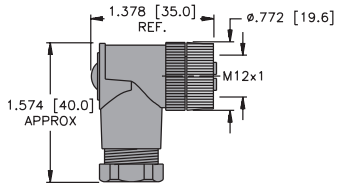
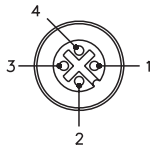
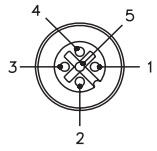
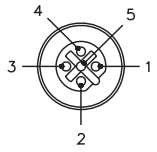
4, 5 and 8-Wire *eurofast*® Field Wireable Connectors, Standard and Reverse Key

- Straight Female Connectors
- IEC IP 67 Protection

Drawing	Part Number	Housing Specs.	Application	Pinout
	B 8141-0	PBT, Black PG 7 cable gland accepts 4-6 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 250 V, 4 A	*Mates with standard key 4-pin cordsets and receptacles*	
	B 8141-0/PG 9	PBT, Black PG 9 cable gland accepts 6-8 mm cable diameter Screw terminals 85°C 250 V, 4 A	*Mates with standard key 4-pin cordsets and receptacles*	
	B 8151-0/PG 9	PBT, Black PG 9 cable gland accepts 4-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 125 V, 4 A	*Mates with standard key 5-pin cordsets and receptacles*	
	BM 8151-0	PBT, Black PG 9 cable gland accepts 4-8 mm cable diameter Screw terminals Metal coupling nut 85°C 125 V, 4 A	*Mates with standard key 5-pin cordsets and receptacles*	
	BWS 8141-0	PBT, Black PG 9 cable gland accepts 4-8 mm cable diameter Screw terminals Metal coupling nut 85°C 250 V, 4 A	*Mates with reverse key 4-pin cordsets and receptacles*	
	BWS 8151-0	PBT, Black PG 9 cable gland accepts 4-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 125 V, 4 A	*Mates with reverse key 5-pin cordsets and receptacles*	
	B 8181-0	Nylon, Black PG 9 cable gland accepts 4-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 60 VAC/75 VDC, 2 A	*Mates with standard key 8-pin cordsets and receptacles*	

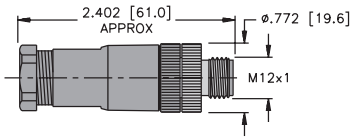
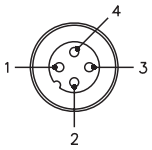
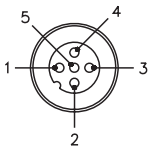
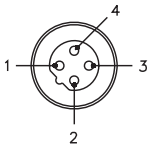
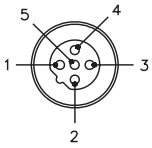
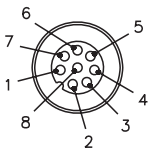
4 and 5-Wire *eurofast*® Field Wireable Connectors, Standard and Reverse Key

- **Right Angle Female Connectors**
- **IEC IP 67 Protection**

Drawing	Part Number	Housing Specs.	Application	Pinout
	B 8241-0	**PBT, Black** **PG 7 cable gland** **accepts 4-6 mm cable diameter** **Screw terminals** **accepts up to 18 AWG conductors** **85°C** **250 V, 4 A**	***Mates with standard key 4-pin cordsets and receptacles***	
	B 8241-0/PG 9	**PBT, Black** **PG 9 cable gland** **accepts 6-8 mm cable diameter** **Screw terminals** **85°C** **250 V, 4 A**	***Mates with standard key 4-pin cordsets and receptacles***	
	B 8251-0/PG 9	**PBT, Black** **PG 9 cable gland** **accepts 4-8 mm cable diameter** **Screw terminals** **accepts up to 18 AWG conductors** **85°C** **125 V, 4 A**	***Mates with standard key 5-pin cordsets and receptacles***	
	BWS 8251-0/PG 9	**PBT, Black** **PG 9 cable gland** **accepts 4-8 mm cable diameter** **Screw terminals** **accepts up to 18 AWG conductors** **85°C** **125 V, 4 A**	***Mates with <u>reverse</u> key 5-pin cordsets and receptacles***	

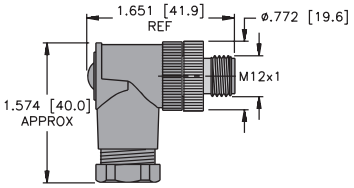
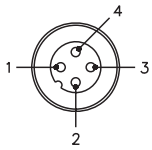
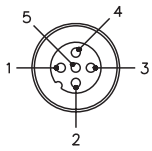
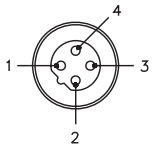
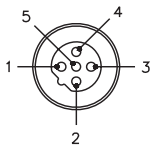
4, 5 and 8-Wire *eurofast*® Field Wireable Connectors, Standard and Reverse Key

- Straight Male Connectors
- IEC IP 67 Protection

Drawing	Part Number	Housing Specs.	Application	Pinout
	BS 8141-0	PBT, Black PG 7 cable gland accepts 4-6 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 250 V, 4 A	*Mates with standard key 4-pin cordsets and receptacles*	
	BS 8141-0/PG 9	PBT, Black PG 9 cable gland accepts 6-8 mm cable diameter Screw terminals 85°C 250 V, 4 A	*Mates with standard key 4-pin cordsets and receptacles*	
	BS 8151-0/PG 9	PBT, Black PG 9 cable gland, accepts 4-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 125 V, 4 A	*Mates with standard key 5-pin cordsets and receptacles*	
	BSWS 8141-0	PBT, Black PG 9 cable gland accepts 4-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 250 V, 4 A	*Mates with reverse key 4-pin cordsets and receptacles*	
	BSWS 8151-0	PBT, Black PG 9 cable gland accepts 4-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 125 V, 4 A	*Mates with reverse key 5-pin cordsets and receptacles*	
	BS 8181-0	Nylon, Black PG 9 cable gland accepts 4-8 mm cable diameter Screw terminals accepts up to 18 AWG conductors 85°C 60 VAC/75 VDC, 2 A	*Mates with standard key 8-pin cordsets and receptacles*	

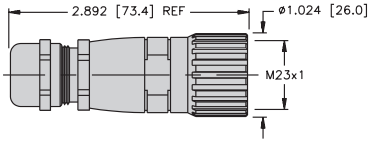
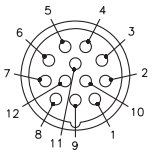
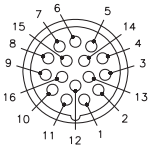
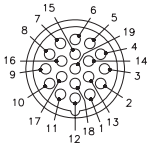
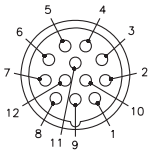
4, 5 and 8-Wire *eurofast*® Field Wireable Connectors, Standard and Reverse Key

- **Right Angle Male Connectors**
- **IEC IP 67 Protection**

Drawing	Part Number	Housing Specs.	Application	Pinout
	BS 8241-0	**PBT, Black** **PG 7 cable gland** **accepts 4-6 mm cable diameter** **Screw terminals** **accepts up to 18 AWG conductors** **85°C** **250 V, 4 A**	***Mates with standard key 4-pin cordsets and receptacles***	
	BS 8241-0/PG 9	**PBT, Black** **PG 9 cable gland** **accepts 6-8 mm cable diameter** **Screw terminals** **85°C** **250 V, 4 A**	***Mates with standard key 4-pin cordsets and receptacles***	
	BS 8251-0/PG 9	**PBT, Black** **PG 9 cable gland** **accepts 4-8 mm cable diameter** **Screw terminals** **accepts up to 18 AWG conductors** **85°C** **125 V, 4 A**	***Mates with standard key 5-pin cordsets and receptacles***	
	BSWS 8241-0	**PBT, Black** **PG 9 cable gland** **accepts 4-8 mm cable diameter** **Screw terminals** **accepts up to 18 AWG conductors** **85°C** **250 V, 4 A**	***Mates with reverse key 4-pin cordsets and receptacles***	
	BSWS 8251-0	**PBT, Black** **PG 9 cable gland** **accepts 4-8 mm cable diameter** **Screw terminals** **accepts up to 18 AWG conductors** **85°C** **125 V, 4 A**	***Mates with reverse key 5-pin cordsets and receptacles***	

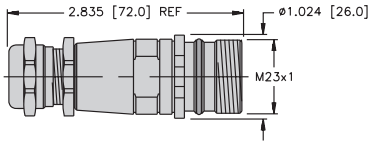
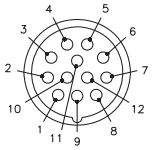
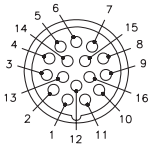
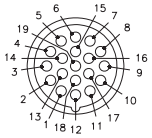
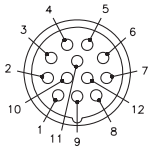
12, 16 and 19-Pin *multifast*® Field Wireable In-line Connectors

- Female Contact Holder & Thread
- For Use with Custom Wiring & Junction Boxes
- Convert Hard Wiring into Quick Disconnect

Housing Style	Part Number	Cable	Features	Pinouts
	CK 12-0	Nickel plated brass PG 11 cable gland, Accepts 4-10 mm cable diameter Accepts up to 12x18 AWG conductors 125°C 300 V, 8 A	*Field wireable 12-pin in-line connector, for use with minifast®, eurofast® (single input per port) and microfast® junctions boxes*	
	CK 16-0	Nickel plated brass PG 13.5 cable gland, Accepts 5-12 mm cable diameter Accepts up to 16x18 AWG conductors 125°C 150 V, 8 A	*Field wireable 16-pin in-line connector, for use with eurofast (isolated power supply) junctions boxes*	
	CK 19-0	Nickel plated brass PG 13.5 cable gland, Accepts 5-12 mm cable diameter Accepts up to 19x18 AWG conductors 125°C 150 V, 8 A	*Field wireable 19-pin in-line connector, for use with eurofast (two Signals per port) junctions boxes*	
	CK 125-0	Nickel plated brass IAC, Accepts 3-10 mm cable diameter Accepts up to 12x18 AWG conductors 125°C 150 V, 8 A	*Field wireable 12-pin in-line connector*	

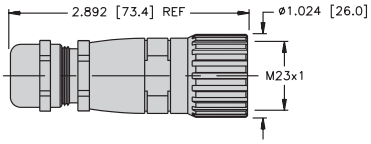
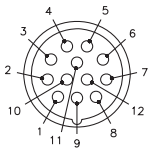
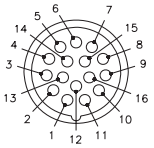
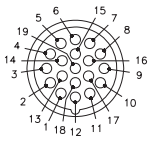
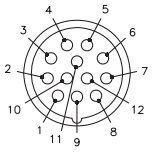
12, 16 and 19-Pin *multifast*® Field Wireable In-line Connectors

- Male Contact Holder & Thread
- For Use with Custom Wiring & Junction Boxes
- Convert Hard Wiring into Quick Disconnect

Housing Style	Part Number	Cable	Features	Pinouts
	CSS 12-0	Nickel plated brass PG 13.5 cable gland, Accepts 5-12 mm cable diameter Accepts up to 12x18 AWG conductor 125°C 300 V, 8 A	*Field wireable 12-pin in-line connector, for use with minifast®, eurofast® (single input per port) and microfast® junctions boxes*	
	CSS 16-0	Nickel plated brass PG 13.5 cable gland, Accepts 5-12 mm cable diameter Accepts up to 16x18 AWG conductor 125°C 150 V, 8 A	*Field wireable 16-pin in-line connector, for use with eurofast (isolated power supply) junctions boxes*	
	CSS 19-0	Nickel plated brass PG 13.5 cable gland, Accepts 5-12 mm cable diameter Accepts up to 19x18 AWG conductor 125°C 150 V, 8 A	*Field wireable 19-pin in-line connector, for use with eurofast (two signals per port) junctions boxes*	
	CSS 125-0	Nickel plated brass IAC, Accepts 3-10 mm cable diameter Accepts up to 12x18 AWG conductors 125°C 150 V, 8 A	*Field wireable 12-pin in-line connector*	

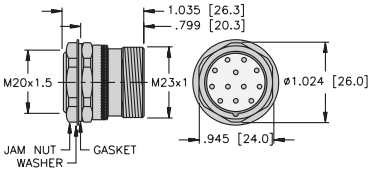
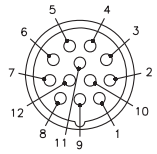
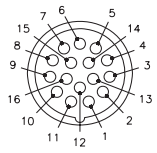
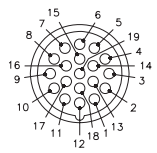
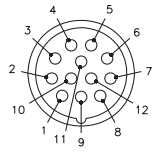
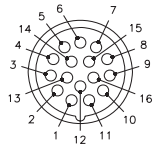
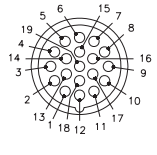
12, 16 and 19-Pin *multifast*® Field Wireable In-line Connectors

- Male Contact Holder, Female Thread
- For Use with Custom Wiring & Junction Boxes
- Convert Hard Wiring into Quick Disconnect
- IEC IP 65 Protection

Housing Style	Part Number	Cable	Features	Pinouts
	CS 12-0	Nickel plated brass PG 11 cable gland, Accepts 4-10 mm cable diameter Accepts up to 12x18 AWG conductor 125° C 300 V, 8 A	*Field wireable 12-pin in-line connector, for use with minifast®, eurofast® (single input per port) and microfast® junctions boxes*	
	CS 16-0	Nickel plated brass PG 13.5 cable gland, Accepts 5-12 mm cable diameter Accepts up to 16x18 AWG conductor 125° C 150 V, 8 A	*Field wireable 16-pin in-line connector, for use with eurofast® (isolated power supply) junctions boxes*	
	CS 19-0	Nickel plated brass PG 13.5 cable gland, Accepts 5-12 mm cable diameter Accepts up to 19x18 AWG conductor 125° C 150 V, 8 A	*Field wireable 19-pin in-line connector, for use with eurofast (two Signals per port) junctions boxes*	
	CS 125-0	Nickel plated brass IAC, Accepts 3-10 mm cable diameter Accepts up to 12x18 AWG conductors 125° C 150 V, 8 A	*Field wireable 12-pin in-line connector*	

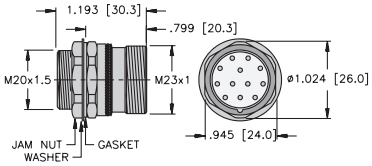
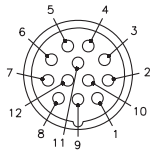
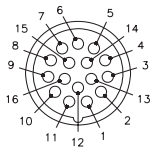
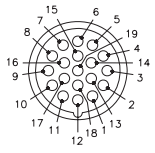
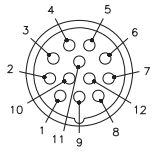
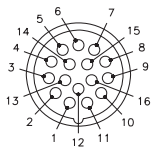
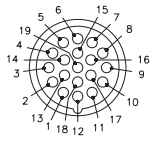
12, 16 and 19-Pin *multifast*® Field Wireable, Front Mount

- Female and Male Connectors
- For Use with Custom Wiring & Junction Boxes
- Convert Hard Wiring into Quick Disconnect
- IEC IP 65 Protection

Housing Style	Part Number	Cable	Features	Pinout
	CKF 12-0	Nickel plated brass Accepts up to 12x18 AWG conductor 125° C 300 V, 8 A	*Field wireable 12-pin receptacle, for use with minifast®, eurofast® (single input per port) and microfast® junctions boxes*	
	CKF 16-0	Nickel plated brass Accepts up to 16x18 AWG conductor 125° C 150 V, 8 A	*Field wireable 16-pin receptacle, for use with eurofast (isolated power supply) junctions boxes*	
	CKF 19-0	Nickel plated brass Accepts up to 19x18 AWG conductor 125° C 150 V, 8 A	*Field wireable 19-pin receptacle, for use with eurofast (two signals per port) junctions boxes*	
	CSF 12-0	Nickel plated brass Accepts up to 12x18 AWG conductor 125° C 300 V, 8 A	*Field wireable 12-pin receptacle, for use with minifast, eurofast (single input per port) and microfast junctions boxes*	
	CSF 16-0	Nickel plated brass Accepts up to 16x18 AWG conductor 125° C 150 V, 8 A	*Field wireable 16-pin receptacle, for use with eurofast (isolated power supply) junctions boxes*	
	CSF 19-0	Nickel plated brass Accepts up to 19x18 AWG conductor 125° C 150 V 8 A	*Field wireable 19-pin receptacle, for use with eurofast (two signals per port) junctions boxes*	

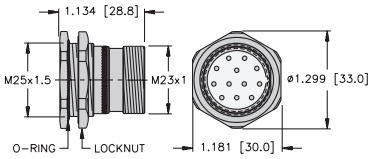
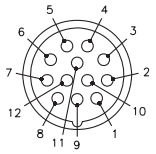
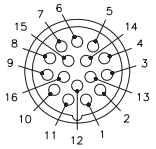
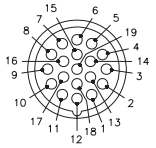
12, 16 and 19-Pin *multifast*® Field Wireable Receptacles, Front Mount, Long Threads

- Female and Male Connectors
- For Use with Custom Wiring & Junction Boxes
- Convert Hard Wiring into Quick Disconnect
- IEC IP 65 Protection

Housing Style	Part Number	Cable	Features	Pinouts
	CKFL 12-0	Nickel plated brass Accepts up to 12x18 AWG conductor 125°C 300 V, 8 A	*Field wireable 12-pin receptacle, for use with minifast®, eurofast® (single input per port) and microfast® junctions boxes*	
	CKFL 16-0	Nickel plated brass Accepts up to 16x18 AWG conductor 125° C 150 V, 8 A	*Field wireable 16-pin receptacle, for use with eurofast (isolated power supply) junctions boxes*	
	CKFL 19-0	Nickel plated brass Accepts up to 19x18 AWG conductor 125°C 150 V, 8 A	*Field wireable 19-pin receptacle, for use with eurofast (two signals per port) junctions boxes*	
	CSFL 12-0	Nickel plated brass Accepts up to 12x18 AWG conductor 125° C 300 V, 8 A	*Field wireable 12-pin receptacle, for use with minifast, eurofast (single input per port) and microfast junctions boxes*	
	CSFL 16-0	Nickel plated brass Accepts up to 16x18 AWG conductor 125°C 150 V, 8 A	*Field wireable 16-pin receptacle, for use with eurofast (isolated power supply) junctions boxes*	
	CSFL 19-0	Nickel plated brass Accepts up to 19x18 AWG conductor 125°C 150 V, 8 A	*Field wireable 19-pin receptacle, for use with eurofast (two Signals per port) junctions boxes*	

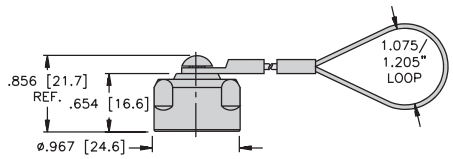
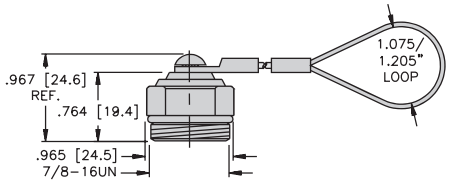
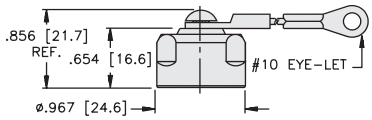
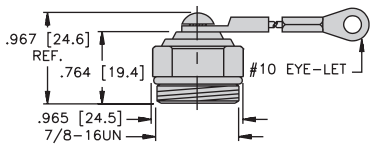
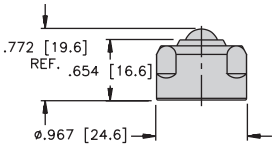
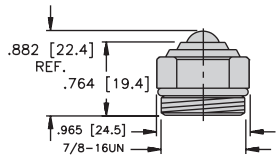
12, 16 and 19-Pin *multifast*® Field Wireable Receptacles, Rear Mount

- Female Contact Holder & Thread
- For Use with Custom Wiring & Junction Boxes
- Convert Hard Wiring into Quick Disconnect
- IEC IP 65 Protection

Housing Style	Part Number	Cable	Features	Pinouts
	CKFD 12-0	Nickel plated brass Accepts up to 12x18 AWG conductor 125°C 300 V, 8 A	*Field wireable 12-pin receptacle, for use with minifast®, eurofast® (single input per port) and microfast junctions boxes*	
	CKFD 16-0	Nickel plated brass Accepts up to 16x18 AWG conductor 125°C 150 V, 8 A	*Field wireable 16-pin receptacle, for use with eurofast (isolated power supply) junctions boxes*	
	CKFD 19-0	Nickel plated brass Accepts up to 19x18 AWG conductor 125°C 150 V, 8 A	*Field wireable 19-pin receptacle, for use with eurofast (two signals per port) junctions boxes*	

minifast® Closure Caps, Standard

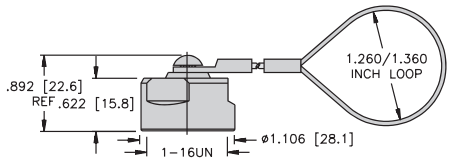
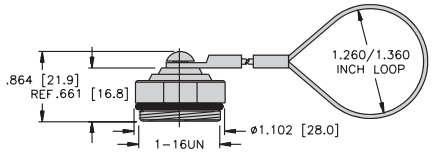
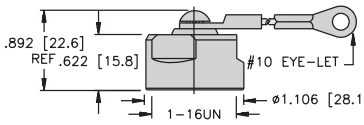
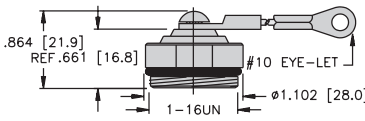
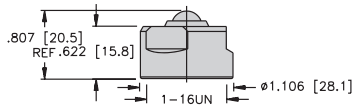
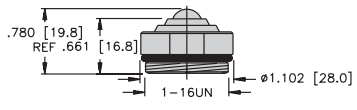
- 7/8-16UN Thread
- Nickel Plated Brass and Stainless Steel
- Male and Female Caps

Housing	Part Number	Specs	Application
	RKM-CC	Nickel plated brass 7/8-16UN threads 6" stainless steel lanyard	*Closure cap, mates to male cordsets*
	RKMV-CC	Stainless steel 7/8-16UN threads 6" stainless steel lanyard	
	RSM-CC	Nickel plated brass 7/8-16UN threads 6" stainless steel lanyard	*Closure cap, mates to female cordsets*
	RSMV-CC	Stainless steel 7/8-16UN threads 6" stainless steel lanyard	
	RKF-CC	Nickel plated brass 7/8-16UN threads 6" stainless steel lanyard	*Closure cap, mates to male receptacles*
	RKFV-CC	Stainless steel 7/8-16UN threads 6" stainless steel lanyard	
	RSF-CC	Nickel plated brass 7/8-16UN threads 6" stainless steel lanyard	*Closure cap, mates to female receptacles*
	RSFV-CC	Stainless steel 7/8-16UN threads 6" stainless steel lanyard	
	RKF-MC	Nickel plated brass 7/8-16UN threads BUNA-N gasket	*Closure cap, mates to male receptacles*
	RKFV-MC	Stainless steel 7/8-16UN threads BUNA-N gasket	
	RSF-MC	Nickel plated brass 7/8-16UN threads BUNA-N gasket and O-ring	*Closure cap, mates to female receptacles*
	RSFV-MC	Stainless steel 7/8-16UN threads BUNA-N gasket and O-ring	

Note: Add "/S1599" to the end of Part Number for closure caps assembled on cordsets.

minifast® Closure Caps, "B" Style

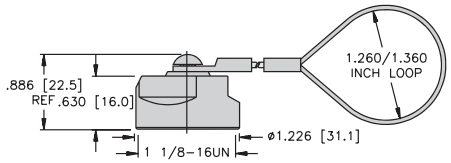
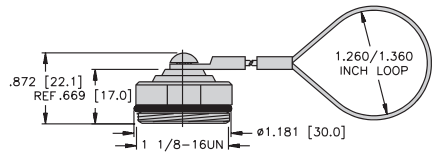
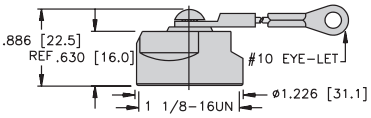
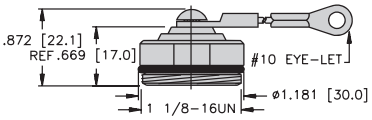
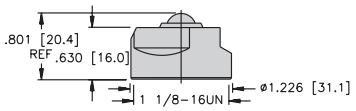
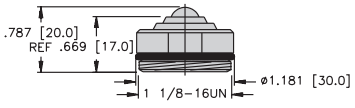
- 1-16UN Threads
- Nickel Plated Brass and Stainless Steel
- Male and Female Caps

Housing	Part Number	Specs	Application
	RKMB-CC	Nickel plated brass 1-16UN threads 6" stainless steel lanyard	*Closure cap, mates to male cordsets*
	RKMBV-CC	Stainless steel 1-16UN threads 6" stainless steel lanyard	
	RSMB-CC	Nickel plated brass 1-16UN threads 6" stainless steel lanyard	*Closure cap, mates to female cordsets*
	RSMBV-CC	Stainless steel 1-16UN threads 6" stainless steel lanyard	
	RKFB-CC	Nickel plated brass 1-16UN threads 6" stainless steel lanyard	*Closure cap, mates to male receptacles*
	RKFBV-CC	Stainless steel 1-16UN threads 6" stainless steel lanyard	
	RSFB-CC	Nickel plated brass 1-16UN threads 6" stainless steel lanyard	*Closure cap, mates to female receptacles*
	RSFBV-CC	Stainless steel 1-16UN threads 6" stainless steel lanyard	
	RKFB-MC	Nickel plated brass 1-16UN threads BUNA-N gasket and O-ring	*Closure cap, mates to male receptacles*
	RKFBV-MC	Stainless steel 1-16UN threads BUNA-N gasket and O-ring	
	RSFB-MC	Nickel plated brass 1-16UN threads BUNA-N gasket and O-ring	*Closure cap, mates to female receptacles*
	RSFBV-MC	Stainless steel 1-16UN threads BUNA-N gasket and O-ring	

Note: Add "/S1599" to the end of Part Number for closure caps assembled on cordsets.

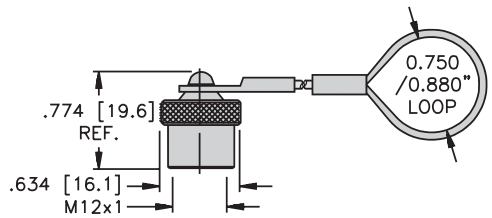
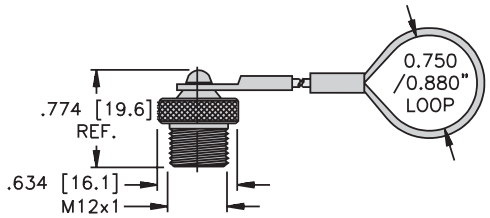
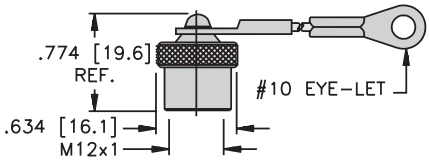
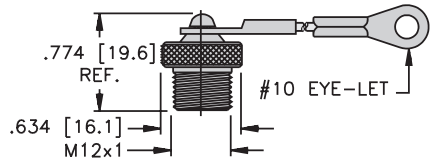
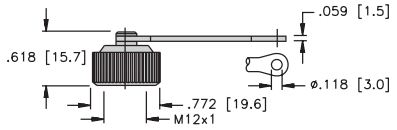
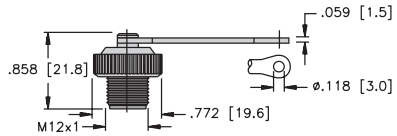
minifast® Closure Caps, "C" Style

- 1⅛-16UN Threads
- Nickel Plated Brass and Stainless Steel
- Male and Female Caps

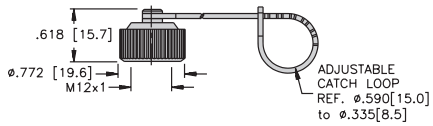
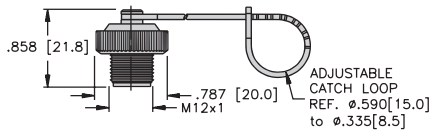
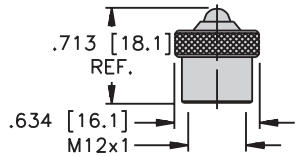
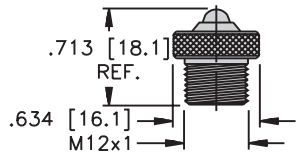
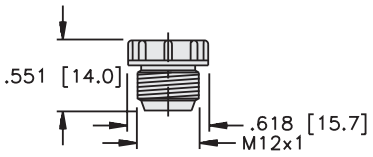
Housing	Part Number	Specs	Application
	RKMC-CC	Nickel plated brass 1⅛-16UN threads 6" stainless steel lanyard	*Closure cap, mates to male cordsets*
	RKMCV-CC	Stainless steel 1⅛-16UN threads 6" stainless steel lanyard	
	RSMC-CC	Nickel plated brass 1⅛-16UN threads 6" stainless steel lanyard	*Closure cap, mates to female cordsets*
	RSMCV-CC	Stainless steel 1⅛-16UN threads 6" stainless steel lanyard	
	RKFC-CC	Nickel plated brass 1⅛-16UN threads 6" stainless steel lanyard	*Closure cap, mates to male receptacles*
	RKFCV-CC	Stainless steel 1⅛-16UN threads 6" stainless steel lanyard	
	RSFC-CC	Nickel plated brass 1⅛-16UN threads 6" stainless steel lanyard	*Closure cap, mates to female receptacles*
	RSFCV-CC	Stainless steel 1⅛-16UN threads 6" stainless steel lanyard	
	RKFC-MC	Nickel plated brass 1⅛-16UN threads BUNA-N gasket and O-ring	*Closure cap, mates to male receptacles*
	RKFCV-MC	Stainless steel 1⅛-16UN threads BUNA-N gasket and O-ring	
	RSFC-MC	Nickel plated brass 1⅛-16UN threads BUNA-N gasket and O-ring	*Closure cap, mates to female receptacles*
	RSFCV-MC	Stainless steel 1⅛-16UN threads BUNA-N gasket and O-ring	

Note: Add "/S1599" to the end of Part Number for closure caps assembled on cordsets.

eurofast® Closure Caps

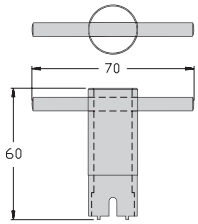
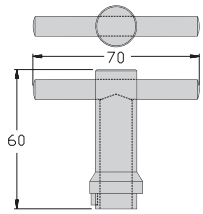
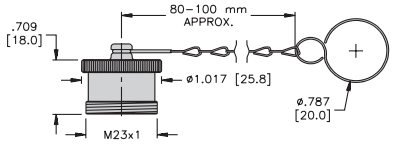
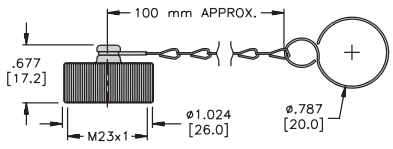
Drawing	Part Number	Cable	Features
	RK-CC	**Nickel plated brass M12x1 threads 6" lanyard**	***Mates to male cordsets***
	RKV-CC	**Stainless steel M12x1 threads 6" lanyard**	***Mates to male cordsets***
	RS-CC	**Nickel plated brass M12x1 threads 6" lanyard**	***Mates to female cordsets***
	RSV-CC	**Stainless steel M12x1 threads 6" lanyard**	***Mates to female cordsets***
	FK-CC	**Nickel plated brass M12x1 threads 6" lanyard with eyelet**	***Mates to male receptacles***
	FKV-CC	**Stainless steel M12x1 threads 6" lanyard with eyelet**	***Mates to male receptacles***
	FS-CC	**Nickel plated brass M12x1 threads 6" lanyard with eyelet**	***Mates to female receptacles***
	FSV-CC	**Stainless steel M12x1 threads 6" lanyard with eyelet**	***Mates to female receptacles***
	FKK-CC	**Plastic M12x1 threads 3" lanyard with eyelet**	***Mates to male receptacles***
	FSK-CC	**Plastic M12x1 threads 3" lanyard with eyelet**	***Mates to female receptacles***

eurofast® Closure Caps

Drawing	Part Number	Cable	Features
	RKK-CC	**Plastic** **M12x1 threads**	***Mates to male cordsets***
	RSK-CC	**Plastic** **M12x1 threads**	***Mates to female cordsets***
	RK-MC	**Nickel plated brass** **M12x1 threads** **No lanyard**	***Mates to male receptacles***
	RKV-MC	**Stainless steel** **M12x1 threads** **No lanyard**	***Mates to male receptacles***
	RS-MC	**Nickel plated brass** **M12x1 threads** **No lanyard**	***Mates to female receptacles***
	RSV-MC	**Stainless steel** **M12x1 threads** **No lanyard**	***Mates to female receptacles***
	VZ3-RED (8/BAG)	**Red Nylon**	***Mates to VB2 series junction boxes and female receptacles***
	VZ3 (8/BAG)	**Nylon**	***Mates to VB2 series junction boxes and female receptacles***

multifast® Accessories

- **Field Wireable Assembly Tools**
- **Closure Caps**

Housing Style	Part Number	Cable	Features
	CK-TOOL	N/A	*Tool to aid assembly of all M23 multifast field wireables with female threads*
	CKF-TOOL	N/A	*Tool to aid assembly of all M23 multifast field wireables with male threads*
	CS-CC	Nickel plated brass Neoprene gasket	*Closure caps for multifast cordset connectors*
	CK-CC	Nickel plated brass Neoprene gasket	*Closure caps for multifast receptacles (CSF and CKF) and CSS cordset connectors*

TURCK Standards

One or more of the following standards may apply to products or components of products in this catalog. This section is intended to provide a reference to the applicable standards only. Original or facsimiles of the original standards documents should be used for interpretation. It is the responsibility of the user to determine the suitability of use of the products represented in this catalog.

ANSI/B93.55M

Generally defines the geometry and connection scheme of "mini" type connectors used in fluid power (valve) applications. It defines the numerical marking of the pins and the conductor size and colors for 3 and 5 pin versions. This specification was the basis for the so-called "automotive" standard conductor colors that are widely used on sensors.

CENELEC EN 50 044

Identifies connections for inductive proximity switches. The specification defines conductor colors for proximity switches with 2, 3, or 4 conductors. It also defines numerical marking of the terminals, whether quick disconnect, or not. **TURCK** sensors and recommended cordsets that apply within the scope of the standard comply with CENELEC EN 50 044. The conventions defined in this standard have been widely adopted in industry to include photoelectric controls and other related sensing devices.

CSA

The Canadian equivalent of UL in Canada. It is a government-run organization that tests and *certifies* that products conform to their own set of safety-related specifications.

DIN 43650

Defines the geometry and other characteristics of the "square" connectors most frequently used on hydraulic and pneumatic solenoid valves and other devices in the fluid power industry.

MSHA

The Mine Safety and Health Administration - a US Government agency that ensures and regulates safety for mines and mine workers. The MSHA approval is required for products used in underground mines, including electrical equipment, power cords, and instrumentation components.
The MSHA standards require special fire-resistant properties and characteristics that prevent the propagation of flames.

NRTL

Nationally Recognized Test Laboratory - An independent laboratory authorized by the US Government to perform product safety evaluations. Test laboratories must meet government laboratory standards, and are audited annually by OSHA to maintain this credential. UL standards are adopted by the US government and OSHA as being "Safety Standards", and these accredited labs then use the UL standards to perform product evaluations.

The Canadian Standards Association, (CSA) is authorized as a NRTL to perform product evaluations and tests to the UL Standards. The certification mark "CSA NRTL/C" is then applied to products that satisfy all construction and performance criteria for both US and Canada. This certification mark is generally accepted by local building, safety, and quality agencies as meeting safety, construction, and performance criteria in both the US and Canada.

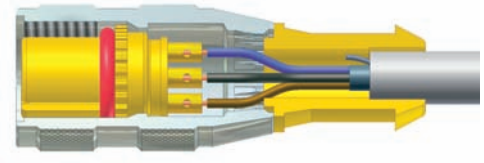
Shielded Cordsets

Whenever wire is used to transmit electrical data, it is possible for the wire to absorb external noise, possibly changing the characteristics of the electrical signal, or to give off noise that could cause changes in other electrical components that are near. Shielding is the act of placing conductive material between the potential noise emitters and receivers.

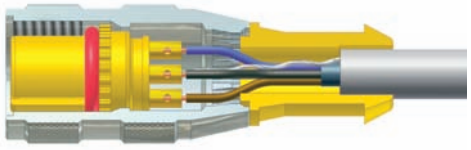
Electrical noise is usually classified as electro-magnetic interference (EMI) or radio frequency interference (RFI).

TURCK offers a number of shielding options:

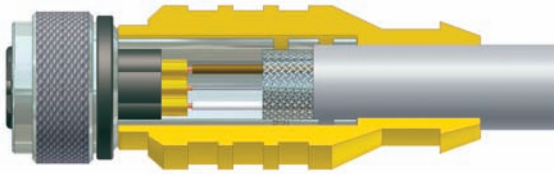
1. Foil shield with drain, drain not connected



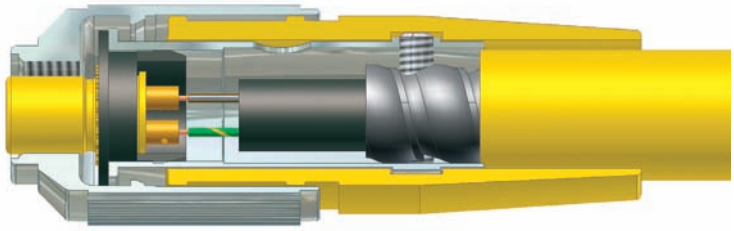
2. Foil shield with drain, drain connected to a pin



3. Foil and braid shield with shield tied to coupling nut



4. Aluminum armored cable with armor tied to coupling nut



For a shield to be effective, it must be tied to a ground at some point. It is usually preferred to not tie the shield to ground at more than one point to avoid ground loops. A shield not tied to a ground will reflect some noise and is better than no shield at all, but will be much more effective if tied to a ground.

High frequency noise, RFI, is handled well with a foil shield. The wavelength of RFI is usually small and can pass through the 'holes' in a braided shield. EMI is usually larger wavelengths and needs a braided shield to increase the mass of shielding material to be effective.

Aluminum armored cables provide the ultimate in noise immunity as they are basically flexible conduit.

Select the shielded cordset that best meets your needs. If it is easier to tie the shield to ground inside the panel, the foil/drain with the drain not connected inside the cordset is a good choice. If you can connect the drain via a pin inside the device being connected, the foil/drain with the drain connected to a pin is a good choice. Any environments with EMI noise from things like large motors or welding equipment will benefit from a braided shield tied to the coupling nut.

TURCK shielded cordsets with the shield tied to the coupling nut offer complete shielding for the entire length of the cordset. A metal sleeve inside the molded body connects the braid/foil shield of the cable to the metal coupling nut with no loss of shielding potential.

TURCK armored cordsets are the ultimate in shielded connectors. A **TURCK** patented process allows the interlocked aluminum armor to be connected directly to the coupling nut offering the same protection as running conductors inside metal conduit.

IP Protection Class

IP		Dust Protection						
		0_ Unprotected	1_ Objects ≥50mm	2_ Objects ≥12.5mm	3_ Objects ≥2.5mm	4_ Objects ≥1.0mm	5_ Dust Protected	6_ Dust Tight
Water Protection	_0 Unprotected	IP 00	IP 10	IP 20	IP 30	IP 40	IP 50	IP 60
	_1 Dripping Water		IP 11	IP 21	IP 31	IP 41	IP 51	IP 61
	_2 Dripping Water on 15° slant		IP 12	IP 22	IP 32	IP 42	IP 52	IP 62
	_3 Spraying Water			IP 23	IP 33	IP 43	IP 53	IP 63
	_4 Splashing Water				IP 34	IP 44	IP 54	IP 64
	_4K Splashing Water High Pressure				IP 34K	IP 44K	IP 54K	IP 64K
	_5 Jet Water						IP 55	IP 65
	_6 Intense Jet Water						IP 56	IP 66
	_6K Intense Jet Water High Pressure						IP 56K	IP 66K
	_7 Temporary immersion							IP 67
	_8 Continuous immersion as specified by manufacturer							IP 68
	_9K Water at high pressure/Steam jet cleaning							IP 69K

IP 67 Protection

First ID Number	Protection from penetration of…	Requirements
0	Unprotected	N/A
1	Solid Foreign Particles Ø50 mm	No full penetration of sphere with Ø50 mm
2	Solid Foreign Particles Ø12.5 mm	No full penetration of sphere with Ø12.5 mm
3	Solid Foreign Particles Ø2.5 mm	No penetration of rod with Ø2.5 mm
4	Solid Foreign Particles Ø1.0 mm	No penetration of wire with Ø1.0 mm
5	Dust	Dust may only penetrate in such quantity that function and safety are not impacted
6	Dust	No penetration of dust

Second ID Number	Protection from penetration of…	Requirements
0	Unprotected	N/A
1	Dripping water	Vertically falling drips may not cause any damage
2	Dripping water when the enclosure is in a slanted position of up to 15°	Vertically falling drips may not cause any damage
3	Spraying water	Spraying water, which is sprayed in a perpendicular angle of up to 60° may not cause any damage
4	Splashing water	Water splashing against the enclosure from every direction may not cause any damage
4K	Splashing water with increased pressure	Water splashing against the enclosure from every direction and with increased pressure may not cause any damage
5	Jet water	Water which is hosed against the enclosure from every direction may not cause damage
6	Intense jet water	Water which is hosed against the enclosure with high intensity may not cause any damage
6K	Intense jet water with increased pressure	Water which is hosed against the enclosure with high intensity and increased pressure may not cause any damage
7	Temporary immersion in water	Water may not enter the enclosure in such quantity as to cause damage when the enclosure is held under water for a set period of time using predetermined pressure (1 m for 30 min)
8	Continuous immersion in water	Water may not enter the enclosure in such quantity as to cause damage when the enclosure is held under water for a set period of time using predetermined pressure (TURCK standard is 6' of water, and other chemicals, for a period of 24 hours)
9K	Water at high-pressure/steam jet cleaning	Water which is directed against the enclosure from every direction with extremely high pressure may not cause any damage (14 to 16 l/min at 8,000 to 10,000 kPa)

NEMA Standards

NEMA		NEMA 1	NEMA 2	NEMA 12	NEMA 13	NEMA 3	NEMA 3R	NEMA 4	NEMA 4X	NEMA 6	NEMA 6P
Rating Type		Indoor				Outdoor		Indoor/Outdoor			
Protection against:	Test Number										
Incidental Contact	6.2	●	●	●	●	●	●	●	●	●	●
Falling Dirt	6.2	●	●	●	●	●	●	●	●	●	●
Rust	6.8	●		●	●	●	●	●	●	●	●
Circulating Dust, Lint, Fibers (nonhazardous)	6.5.1.2(2)			●	●	●		●	●	●	●
Windblown Dust	6.5.1.1(2)					●		●	●	●	●
Falling Liquids/Light Splashing	6.3.2.2		●	●	●	●		●	●	●	●
Rain	6.4.2.1					●	●	●	●	●	●
Rain	6.4.2.2					●		●	●	●	●
Snow and Sleet	6.6.2.2					●	●	●	●	●	●
Hose Down and Splashing Water	6.7							●	●	●	●
Occasional Prolonged Submersion	6.11(2)									●	●
Oil and Coolant Drip	6.3.2.2			●	●						
Oil and Coolant, Spray/Splash	6.12				●						
Corrosive Agents	6.9					●	●		●		●

6.2 Rod Entry Test - a ½" diameter rod may not enter the enclosure and a 1/8" rod cannot enter within 4" of live components

6.3 Drip Test - 20 drops per minute for 30 minutes with no water entering enclosure 6.3.2.2 Evaluation, no water shall enter enclosure

6.4 Rain Test - All exposed surfaces are sprayed with 5 psi of water for 60 minutes at a rate of 18" per hour rise in a straight sided pan 6.4.2.1 Evaluation, No water shall have reached live parts, insulation, or mechanisms 6.4.2.2 Evaluation, No water shall have entered enclosure

6.5.1.1 (2) Outdoor Dust Test (alternate method) - Stream of water at 45 gallons per minute from a 1" diameter nozzle, from all directions at a distance from 10' to 12'. Test time is a minimum of 5 minutes. No water shall enter enclosure.

6.5.1.2 (2) Indoor Dust Test (alternate method) - Atomized water at 30 psi is sprayed from all directions from a distance of 12" to 15" at a rate of 3 gallons per hour. No water shall enter enclosure.

6.6 External Icing Test - The enclosure is sprayed with water between 0°C and 3°C in a room at 2°C. The spray is between 1 and 2 gallons per hour per square foot. Spray for 1 hour. The room temp is then dropped to between -7°C and -3°C with the spray still going. Ice needs to build up on a test bar at a rate of 1/4 inch per hour. Spray continues until 3/4 inch of ice is on the enclosure. Room temperature is maintained for at least 3 hours. 6.6.2.2 Evaluation, enclosure is undamaged after ice has melted.

6.7 Hose down Test - Stream of water at 65 gallons per minute from a 1" diameter nozzle from all angles at a distance of 10' to 12'. Test time is 48 seconds times (height + width + depth of enclosure in feet) or a minimum of 5 seconds. No water shall enter enclosure.

6.8 Rust Resistance Test - only applicable to enclosures incorporating external ferrous parts

6.9 Corrosion Protection - Test per UL 508, 6.9 or 6.10.

6.11 (2) Air Pressure Test (alternate method) - Enclosure is submerged in water at a pressure equal to a depth of 6' for 24 hours. No water shall enter enclosure.

6.12 Oil Exclusion Test - Stream of test liquid at 2 gallons per minute from a 3/8" nozzle for 30 minutes. Water with 0.1% wetting agent is directed from all angles from a distance of 12" to 18". No test liquid shall enter the enclosure.

Conversion Chart		
AWG to Metric		
AWG	Diameter mm	Section mm^2
8	3.26	10
10	2.59	6
12	2.05	4
14	1.63	2.5
16	1.29	1.5
18	1.024	0.75
20	0.813	0.5
22	0.643	0.34
24	0.511	0.25
26	0.405	0.14
28	0.32	0.05
30	0.255	0.05

Thread Conversion Chart	
PG to Metric	
PG	Diameter (mm)
7	12
9	16
11	20
16	25

Cable Length Tolerance Chart	
All Lengths	
Strip Length	Diameter (mm)
0-7 mm	±0.5 mm
8-29 mm	±1.0 mm
30-49 mm	±2.0 mm
50-69 mm	±3.0 mm
70-100 mm	±4.0 mm
Over 100 mm	±5.0 mm

Installing Cable Products in Accordance with the National Electrical Code (NEC)

The NEC is a set of guidelines for installation of electrical devices, including cables, meant to reduce the risk of electrical shock, fire, etc. The NEC is simply a code and local laws may or may not require installation based on the NEC. Check local laws for applicability.

The NEC generally does not cover cables installed inside a machine. Any cables installed in an exposed manner, on the outside of a machine or from one machine to something else, must be an approved type and installed in accordance with the appropriate NEC articles.

UL (Underwriters Laboratory) and CSA (Canadian Standards Association) are the primary sources in North America for approving cables to specific standards. While a cable installed within a piece of machinery does not fall under the NEC, most people want to install an approved cable. **TURCK** cables have both UL and CSA approvals. Many of these approvals are the UL AWM (Appliance Wiring) approvals and are acceptable for use in a UL approved device. A UL Listed cable may be installed outside a machine per the NEC standards. UL Listed cables available from **TURCK** include NEC designations for hard duty cables (SOOW, SJOOW, STOOW, SEOW), armored cables (MC), and tray-rated cables (PLTC, ITC).

Hard duty cables designations are:

S - Service Grade (600V)

SJ - Service Grade Junior (300V)

ST - Service Grade Thermoplastic (600V)

SE - Service Grade Thermoplastic Elastomer (600V)

O - Oil resistant jacket material

OO - Oil resistant jacket and conductor insulation

W - Weather proof

TURCK armored cables are available in 3 different configurations. Type MC cables, type MC cables with ITC/PLTC approvals and simply ITC/PLTC approved. Armored cables with ITC/PLTC approvals may be installed in an exposed run without being offered additional mechanical protection.

Tray-rated cables from **TURCK** include Instrument Tray Cable (ITC) and/or Power Limited Tray Cable (PLTC).

TURCK NEC type approved cables are dual listed with other UL type approvals. For example, the RKM 126-*M cordset has a 12 conductor 16 AWG cable with UL AWM 600V approval and ITC/PLTC approval.

Please refer to the NEC and local laws for specific installation requirements based on your environment.

Cable Applications

Proper management of cabling systems can mean the difference between a dependable and smooth operating installation and costly reoccurring down time. The suggestions outlined below illustrate some of the common sources of problems and provide simple and effective solutions.

Proper Bend Radius for Fixed and Moving Applications

Providing sufficient bend radius will allow the cable to absorb the energy of bending over a greater portion of its length, increasing its effective working life. Small increases in the radius of the bend can produce substantial increases in cable life.

Fixed Applications:
Minimum bend radius 5x cable diameter

Moving Applications:
Minimum bend radius 10x cable diameter

Eliminating Stress Points in Cable Dress

Installing cables to allow for adequate stress loops and freedom of motion increase the life of the cables. **TURCK** cordsets incorporate molded strain reliefs that will assist in preventing stress.

Tie Down Loops

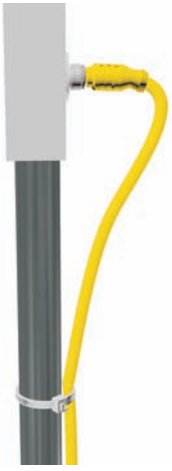
Correct

Incorrect

Strain Relief

Correct

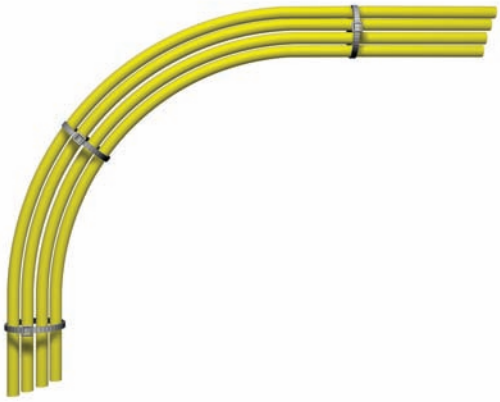
Incorrect



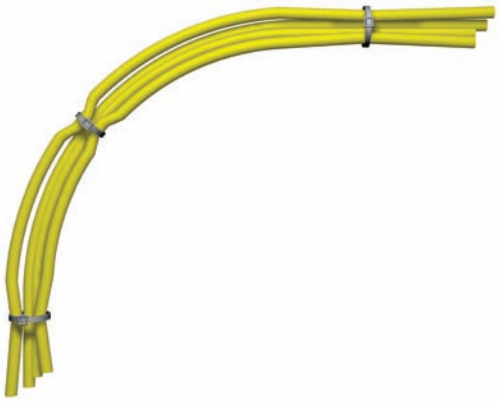
Cable Bundling Techniques

When bundling several cables together, always keep the bundle loose enough to move within itself. Tightly tied bundles create both compression and tension stresses when the bundle is moved.

Correct



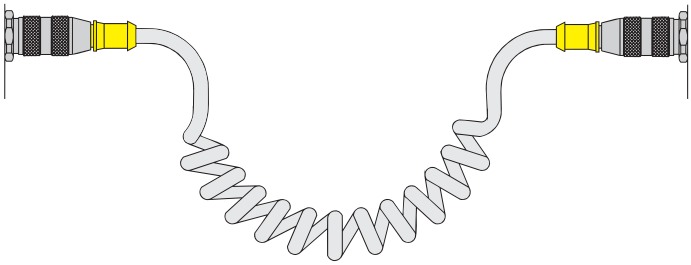
Incorrect



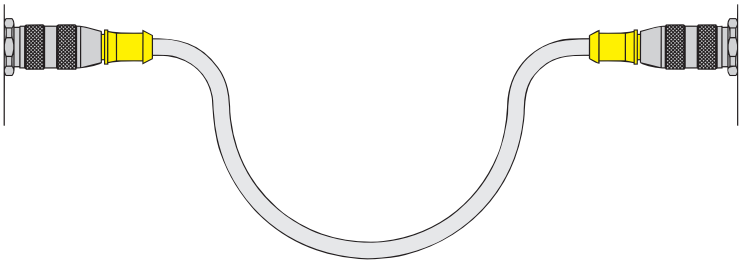
Cabling for Motion Applications

Where cabling is subjected to linear, angular or rotational motion between two points, always allow adequate cable length to absorb the energy imparted by the motion. Use of coiled cords, mechanical support mechanisms, or large, well supported cable loops will maximize cable life.

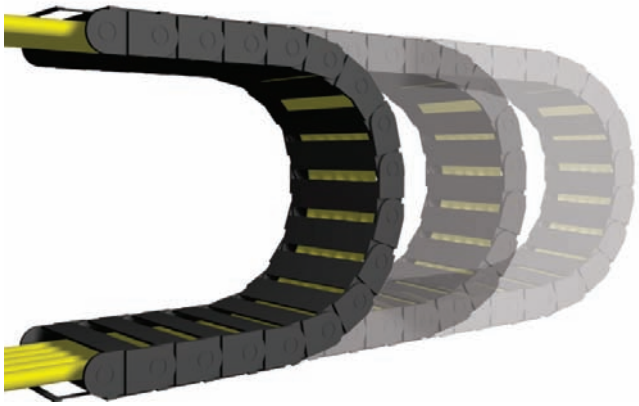
Coil Cord



Cable Loop



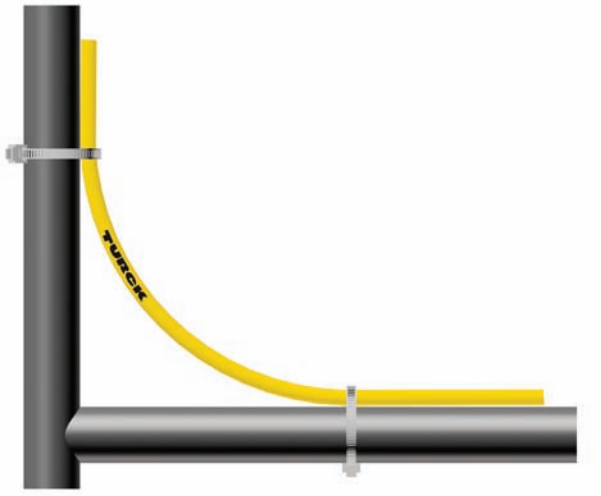
"C" Track



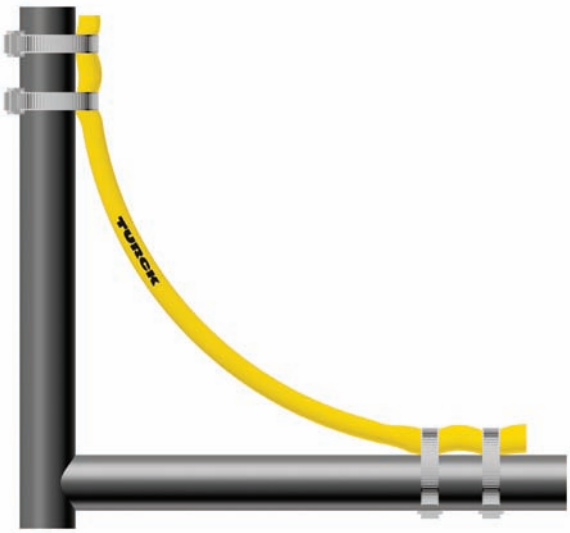
Tying Cables with Cable Ties

When tying cable with self locking cable ties, always leave the ties loose enough for the cables to slide freely under the tie. Over tightening will create stress concentrations that can cause the conductors to fail prematurely. Never tighten the tie to the point where the cable jacket becomes deformed or pinched.

Correct



Incorrect



Glossary of Terms

Abrasion Resistance
Ability of wire, cable or material to resist surface wear.

ABS
American Bureau of Shipping. Establishes and administers standards for the design, construction, and operational maintenance of marine vessels and structures.

AC Alternating Current
Current in which the charge-flow periodically reverses and is represented by: I = I0cos (2 f + f) [I= Im cos (vt+f] where I is the current, I0 is the amplitude, f the frequency, f the phase angle.

Ambient Temperature
The temperature of a medium (gas or liquid) surrounding an object.

Ampere (A)
The unit of current. One ampere is the current flowing through one ohm of resistance at one volt potential.

Analog I/O
Variable 2-wire continuous low level current or voltage signal.

ANSI
Abbreviation for American National Standards Institute.

Armorfast
Cordset with metal clad cable (NEC type MC)

Armored Cable
A cable provided with a wrapping of metal for mechanical protection.

AWG (American Wire Gauge)
The standard system used for designating wire diameter. The lower the AWG number, the larger the diameter. Also called the Brown and Sharpe (B&S) wire gauge.

AWM (Appliance Wiring Material)
A UL designation covering insulated wire and cable for internal wiring of appliances and equipment.

Binder
A spirally served tape or thread used for holding assembled cable components in place awaiting subsequent manufacturing operations.

Braid
A fibrous or metallic group of filaments interwoven in cylindrical form to form a covering over one or more wires.

Cable
A stranded conductor with or without insulation and other coverings (single-conductor cable), or a combination of conductors (multiple-conductor cable).

Color Code
Wire or circuit identification by color, utilizing solid colors, tracers, braids, surface printing, etc.

Contact Holder
Insulating device that holds the contacts in their proper position

Conductivity
The ability of a material to allow electrons to flow, measured by the current per unit of voltage applied. It is the reciprocal of resistivity.

Conductor
A wire (or combination of wires not insulated from one another) suitable for carrying electric current.

Conduit
A tube or trough in which insulated wires and cables are run.

Connector
A device used to provide rapid connect / disconnect service for electrical cable and wire terminations.

Contact
The parts of a connector that actually carry the electrical current and that are touched together or separated to control the flow.

Cable
A multiconductor cable made for operation in control circuits.

Cordset
Portable cord fitted with a wiring device at one or both ends.

Cord
A small, flexible insulated cable.

CPE (Chlorinated Polyethylene)
A flexible material with high tear strength and good resistance to most inorganic chemicals. It is inherently difficult to ignite. A Thermoset plastic.

Creepage
The conduction of electricity across the surface of a dielectric.

Crimp Termination
A connection in which a metal sleeve is secured to a conductor by mechanically crimping the sleeve with pliers, presses or automated crimping machines.

Current (I)
The rate of transfer of electricity. Practical unit is the ampere, which represents the transfer of one coulomb per second. In a simple circuit, current (I) produced by a cell or electromotive force (E) when there is an external resistance (R) and internal resistance (r) is: I = E / R + r)

Current Carrying Capacity
The maximum current an insulated conductor can safely carry without exceeding its insulation and jacket temperature limitations.

Cut-Through Resistance
The ability of a material to withstand mechanical pressure, usually a sharp edge or small bending radius, without separation.

Dielectric Strength
The voltage that an insulator can withstand before breakdown occurs. Usually expressed as a voltage gradient (such as volts per mil).

Direct Current (DC)
An electric current that flows in only one direction.

Discrete I/O
Signaling where the supply is typically switched to designate a change ofstate.

DNV
Det Norske Veritas. Management system certification body.

Drain Wire
In a cable, the bare wire laid over the component or components and used as a ground connection.

Earth
British terminology for zero-reference ground.

EPDM
Ethylene-propylene-diene monomer rubber. A material with good electrical insulating properties. A Thermoset plastic.

***eurofast*®**
M12x1 threads, single key, 2 - 6, 8, 10, 12-pin

Exposed Run/Direct Burial
Cable construction meeting the crush and impact requirements of metal clad cables without metal clad. For use as exposed wiring between cable tray and equipment.

Glossary of Terms

***extremelife*™**
Heavy duty cable for extreme temperature environments. These cables provide excellent resistance to extreme cold temperatures and oilfield drilling muds.

Extruded Cable
Cable with conductors that are uniformly insulated and formed by applying a homogeneous insulation material in a continuous extrusion process.

Fillers
Non-conducting components cabled with the insulated conductors or optical fibers to impart roundness, flexibility, tensile strength, or a combination of all three, to the cable.

firefast ®
High temperature protective sleeving.

flexlife-10 ®
Unique cable designed for robotic and other continuous motion applications.

Ground
An electrical connection to the earth, generally through a ground rod. Also a common return to a point of zero potential, such as the metal chassis of equipment.

Ground Loop
A completed circuit between shielded pairs of a multiple pair created by random contact between shields. An undesirable circuit condition in which interference is created by ground currents when grounds are connected at more than one point.

Ground Potential
The potential of the earth. A circuit, terminal or chassis is said to be at ground potential when it is used as a reference point for other potentials in the system.

HART
Two-way digital communication protocol for process measurement.

Hygroscopic
Capable of absorbing moisture from the air.

IEC
European Standardization agency; International Electrotechnical Commission.

IEEE
Institute of Electrical and Electronics Engineers

Input
A signal (or power) which is applied to a piece of electrical apparatus or the terminals on the apparatus to which a signal or power is applied.

Insulation
A material having good dielectric properties that is used to separate close electrical components, such as cable conductors and circuit components.

ITC
Instrument Tray Cable. NEC classification for cable resistant to the spread of fire and suitable for use in cable trays. 150 V rating.

Irradiation
In insulation, the exposure of the material to high-energy emissions for the purpose of favorably altering the molecular structure.

Jacket
Pertaining to wire and cable, the outer protective covering, may also provide additional insulation.

LED
Light Emitting Diode used to indicate device status.

Line Voltage
The value of the potential existing on a supply or power line.

Load
A device that consumes power from a source and uses that power to perform a function.

***lokfast*™ Guard**
Guards for minifast and eurofast connections in hazardous locations. The guard requires a tool to remove.

MC
Metal Clad Cable. NEC classification for cable resistant to crush and impact based on an outer covering of metal.

microfast ®
½"-20UNF threads, dual key, 2 - 6-pin

minifast ®
7/8"-16UN threads, 2 - 6-pin

***minifast* B size**
1"-16UN threads, 6 - 8-pin

***minifast* C size**
1 1/8"-16UN threads, 9, 10, 12-pin

Moisture Resistance
The ability of a material to resist absorbing moisture from the air or from water when immersed.

Molded Plug
A connector molded onto either end of a cord or cable.

MOV
Acronym for Metal Oxide Varistor. A solid state device used to suppress voltage surges \ spikes

MSHA
Mine Safety and Health Administration

multibox ®
Junction boxes, 4, 6, 8 and 16 port

multifast
M23x1 threads, 12, 16 and 19-pin or M27 threads, 26 and 28-pin

Mylar
DuPont trademark for polyester film.

National Electrical Code (NEC)
A set of regulations governing construction and installation of electrical wiring and apparatus in the United States, established by the American National Board of Fire Underwriters.

NEMA
National Electrical Manufacturers Association.

Neoprene
A synthetic rubber with good resistance to oil, chemical, and flame. Also called polychloroprene. A Thermoset plastic.

Noise
In a cable or circuit, any extraneous signal that tends to interfere with the signal normally present in or passing through the system.

NPN Output
Transistor output that switches the common or negative voltage to the load (current sinking). Load connected between output and positive supply.

Ohm (Ω)
The electrical unit of resistance. The value of resistance through which a potential difference of one volt will maintain a current of one ampere.

Ohm's Law
E = I x R. Voltage (E) is directly proportional to the product of current (I) and resistance (R) of circuit.

Glossary of Terms

Output
The useful power or signal delivered by a circuit or device.
PA (Polyamide, Nylon)
An abrasion-resistant thermoplastic with good chemical resistance, also known as polyamide.
pentafast ®
M5 threads, 3 and 4-pin
picofast ®
Snap lock or M8x1 threads, 3, 4 and 6-pin
Plastic
High-polymeric substances, including both natural and synthetic products, but excluding the rubbers, that are capable of flowing under heat and pressure.
Plug
A connector associated with being attached to a cable.
PLTC
Power Limited Tray Cable. NEC classification for cable resistant to the spread of fire and suitable for use in cable trays. 300 V rating.
PNP Output
Transistor output that switches the positive voltage to the load (current sourcing). Load connected between output and common.

POM (Polyoxymethylene, Acetal, Delrin)
Polyoxymethylene - a crystalline thermoplastic polymer with a high melting point. It is suitable for mechanical parts or electrical insulators that require structural strength at above normal temperatures.
Potting
The sealing of a cable termination or other component with a liquid that thermosets into an elastomer.
PUR (Polyurethane)
Broad class of polymers noted for good abrasion and solvent resistance.
PVC (Polyvinyl Chloride)
A general-purpose thermoplastic widely used for wire and cable insulation and jackets.
powerfast ®
1 3/8"-16 threads, 2, 3 and 4 pin or M23 threads, 6, 7 and 9 pins.
Resistance (R)
A measure of the difficulty in moving electrical current through a medium when voltage is applied. It is measured in ohms.
Retractile Cord
A cord having a specially treated jacket or insulation so that it will retract like a spring. Retractility may be added to all or part of a cord's length.
Rubber
A general term used to describe wire insulation made of thermosetting elastomers, such as natural or synthetic rubbers, neoprene, Hypalon, CPE butyl rubber and others.
RTD
Resistance Temperature Detector
Serve
A filament or group of filaments such as fibers or wires, wound around a central core.
Shield
In cables, a metallic layer placed around a conductor or group of conductors to prevent electrostatic or electromagnetic interference between the enclosed wires and external fields.
Shielded twisted pair
Two conductors twisted together with a metallic covering.
Signal
Any visible or audible indication that can convey information. Also, the information conveyed through a communication system.
SJOOW
Junior hard service, rubber insulated, portable cord with oil resistant rubber outer jacket. Stranded copper conductors with separator and individual oil and water resistant rubber insulation. Two or more color coded conductors cabled with filler, wrapped with separator and rubber jacketed overall.
300 V.
Solid Conductor
A conductor consisting of a single wire.
Solid State
Pertains to circuits and components using semiconductors without moving parts. Example: transistors, diodes, SCR, etc.
SOOW
Heavy duty, rubber-insulated portable cord with oil resistant rubber outer jacket. Stranded copper conductors with separator and individual oil and rubber insulation. Two or more color-coded conductors cabled with filler, wrapped with separator and rubber jacketed overall. 600 V.
STOW
Heavy duty, PVC insulated, portable cord with oil resistant PVC outer jacket. Stranded copper conductors, PVC insulation. Two or more color coded conductors cabled with filler, wrapped with separator and PVC jacketed overall. Approved for outdoor use. 600 V.
Stranded Conductor
A conductor composed of groups of wires twisted together.
Temperature Rating
The maximum temperature at which a material may be used in continuous operation without loss of its basic properties.
Thermoplastic
A material that will soften, flow or distort appreciably when subjected to heat and pressure.
Thermoset
A material that hardens or sets when heat is applied, and which, once set, cannot be re-softened by heating. The application of heat is called "curing".
TPE
Thermo Plastic Elastomer. Broad class of polymers noted for flexibility and weld slag resistance.
TPR
Thermo Plastic Rubber. Another name for TPE.
Twisted Pairs
A cable composed of two small, insulated conductors twisted together without a common covering.
Versafast ™
M16 threads, 5, 6, 7, 8, 12, 14 and 19 pin
V*fast ®
DIN 43650, type A, B, I and C
VDE
German approval agency.
Volt (V)
A unit of electrical pressure. One volt is the electrical pressure that will cause one ampere of current to flow through one ohm of resistance.

Glossary of Terms

Voltage
The term most often used in place of electromotive force, potential difference, or voltage drop. Designates the electric pressure existing between two points that is capable of producing a current when a closed circuit is connected between these points.

Voltage Rating
The highest voltage that may be continuously applied to a wire in conformance with standards or specifications.

VW-1
A flammability rating established by Underwriters Laboratories for wires and cables that pass a specially designed vertical flame test, formerly designated FR-1.

Wicking
The longitudinal flow of a liquid in a wire or cable due to capillary action.

Register to receive the TURCK TIMES ...

Our interactive e-newsletter full of exclusive insights, tips and tools to help make your manufacturing processes run smoothly. The TURCK Times is your source for news about TURCK products and industry updates.

Registering is easy and only requires your e-mail address. You are not obligated for future contact or purchase, and you may opt-in or out of the e-mail list at any time! We value your time and privacy, and will not share your information with another party.

Sign up today at www.turck.com/elist!

TURCK
Process Wiring Solutions

Installation Instructions for TURCK's *minifast*® and *eurofast*® Connectivity Products

Follow these simple steps to ensure that your **TURCK** connectivity products are installed for best performance and safety.

Step One:

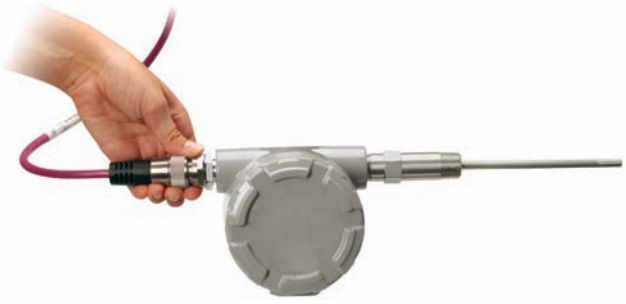
Many instruments are available with a **TURCK** receptacle pre-installed. If a receptacle is already installed, proceed to Step Two. If field installation of a receptacle is necessary, feed the receptacle leads through the instrument's conduit entry and thread the receptacle into the entry threads. Receptacles with NPT threads should be tightened per the requirements for NPT conduit fittings. Receptacles with straight threads (M20 or NPSM) should be tightened to deflect the O-ring just sufficiently to effect a good seal. The receptacle leads should then be connected to the terminals of the instrument. Consult the instrument manual for terminal identification and preferred method of connection. Also, please refer to the product catalog or online at www.turck.com for the pin-out of the receptacle.

Step Two:

minifast

minifast connectors are designed to industry standards SAE H1738 and ANSI/B93.55M. The environmental seal for mated connectors is formed by the 'cork and bottle' design of the pin and socket carriers in which each connection chamber is individually sealed. The connection must be properly secured to achieve this seal, as well as to ensure a good electrical performance.

The keyed cordset should be aligned with the key on the instrument receptacle. The cordset should then be pushed into the receptacle and the coupling nut turned until hand tight. The cordset should then be pushed firmly into the receptacle a second time and the coupling nut hand tightened again. This generally allows an additional 1/8 - 1/4 turn and ensures that a tight, weather-proof connection is made. No tools should be used in tightening the connections, as damage to the contacts could occur if the connection is over-tightened.



eurofast

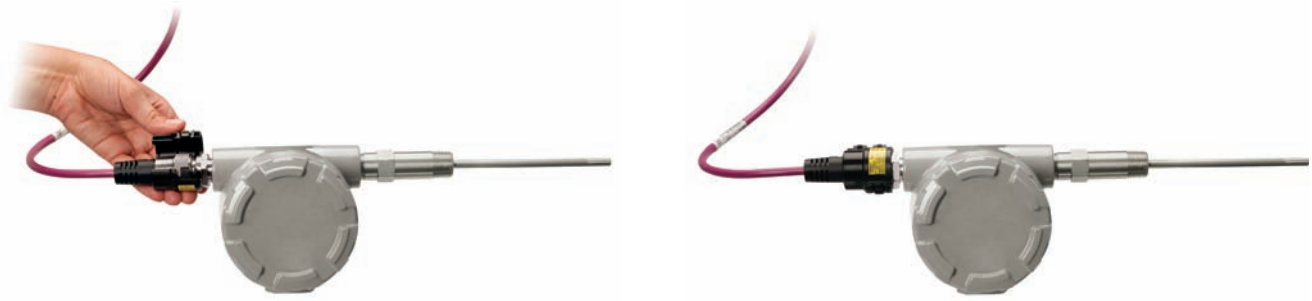
eurofast connectors are designed to industry standard SAE H1738. The environmental seal for mated connectors is formed by an O-ring seal. The connection must be properly secured to achieve this seal, as well as to ensure a good electrical performance.

The keyed cordset should be aligned with the key on the instrument receptacle. The cordset should then be pushed into the receptacle and the couple nut turned until hand tight. While rotating the coupling nut, the installer may notice a 'ratcheting' sensation. This is an anti-vibration feature designed to maintain the connection in high-vibration environments. No tools should be used in tightening the connection, as damage to the contacts could occur if the connection is over-tightened.

Installation Instructions for TURCK's *minifast*® and *eurofast*® Connectivity Products

Step Three:

Most **TURCK** process wiring products are designed and approved for use in hazardous locations. If the installation is in a hazardous location, there may be additional actions necessary, such as locking the connection with a ***lokfast***™ guard (as shown in the figure below), using an approved energy limiting source of power, or ensuring that the instrument has the appropriate approval. FM approved control drawings detail the requirements for compliant installation of **TURCK** products. The appropriate control drawing number will be identified in the product markings and may be viewed or downloaded from www.turck.com/fmcd. Consult the instrument manual to ensure the instrument has the appropriate approval and to determine if the approval imposes any additional constraints.



Index

Index

Index

Index

Index

Index

TURCK Inc. sells its products through Authorized Distributors. These distributors provide our customers with technical support, service and local stock. **TURCK** distributors are located nationwide - including all major metropolitan marketing areas.

For Application Assistance or for the location of your nearest **TURCK** distributor, call:

1-800-544-7769

Specifications in this manual are subject to change without notice. **TURCK** also reserves the right to make modifications and makes no guarantee of the accuracy of the information contained herein.

Literature and Media questions or concerns?
Contact Marketing Communications TURCK USA - media@turck.com

Warranty Terms and Conditions

RISK OF LOSS

Delivery of the equipment to a common carrier shall constitute delivery to the Purchaser and the risk of loss shall transfer at that time to Purchaser. Should delivery be delayed due to an act or omission on the part of the Purchaser, risk of loss shall transfer to the Purchaser upon notification by **TURCK Inc.** that the order is complete and ready for shipment.

WARRANTIES

TURCK INC. (hereinafter **"TURCK"**) offers five (5) WARRANTIES to cover all products sold. They are as follows:

1) The **12-MONTH WARRANTY** is available for the products listed - generally those not covered by **LIFETIME**, **5-YEAR**, **24-MONTH** or **18-MONTH** warranty. No registration required.
2) The **18-MONTH WARRANTY** is available for the products listed - generally those not covered by **LIFETIME** or **5-YEAR WARRANTY**. No registration is required.
3) The **24-MONTH WARRANTY** is available for the products listed - generally those not covered by **LIFETIME**, **5-YEAR** or **18-MONTH**. No registration is required.
4) The **5-YEAR WARRANTY** is available generally for the products listed. No registration is required.
5) A **LIFETIME WARRANTY** is available for the products listed. It becomes effective when the accompanying **TURCK LIFETIME WARRANTY REGISTRATION** is completed and returned to **TURCK**.

GENERAL TERMS AND CONDITIONS FOR ALL WARRANTIES

- **12-MONTH STANDARD WARRANTY**
- **18-MONTH STANDARD WARRANTY**
- **24-MONTH STANDARD WARRANTY**
- **5-YEAR WARRANTY**
- **LIFETIME WARRANTY**

TURCK warrants the Products covered by the respective WARRANTY AGREEMENTS to be free from defects in material and workmanship under normal and proper usage for the respective time periods listed above from the date of shipment from **TURCK**. In addition, certain specific terms apply to the various WARRANTIES.

THESE EXPRESS WARRANTIES ARE IN LIEU OF AND EXCLUDE ALL OTHER REPRESENTATIONS MADE - BOTH EXPRESSED AND IMPLIED. THERE ARE NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE FOR PRODUCTS COVERED BY THESE TERMS AND CONDITIONS.

TURCK warrants that the goods sold are as described, but no promise, description, affirmation of fact, sample model or representation, oral or written shall be part of an order, unless set forth in these terms and conditions, or are in writing and signed by an authorized representative of **TURCK**. These WARRANTIES do not apply to any Product which has been subject to misuse, negligence, or accident - or to any Product which has been modified or repaired, improperly installed, altered, or disassembled -except according to **TURCK's** written instructions.

These WARRANTIES are subject to the following conditions:

1) These WARRANTIES are limited to the electronic and mechanical performance only, as expressly detailed in the Product specifications and NOT to cosmetic performance.
2) These WARRANTIES shall not apply to any cables attached to, or integrated with the Product. However, the **18-MONTH WARRANTY** shall apply to cables sold separately by **TURCK**.
3) These WARRANTIES shall not apply to any Products which are stored, or utilized, in harsh environmental or electrical conditions outside **TURCK's** written specifications.
4) The WARRANTIES are applicable only to Products shipped from **TURCK** subsequent to January 1, 1988.

ADDITIONAL SPECIFIC TERMS FOR -

(12-MONTH STANDARD WARRANTY) for Linear Displacement Transducers and RFID products.

(18-MONTH STANDARD WARRANTY) FOR ULTRASONIC SENSORS, CABLES AND ALL NON-SENSING PRODUCTS SOLD BY TURCK INC. INCLUDING MULTI-SAFE, MULTI-MODUL, MULTI-CART AND RELATED AMPLIFIER PRODUCTS, RELAYS AND TIMERS.

(24-MONTH STANDARD WARRANTY) FOR ENCODERS.

5-YEAR WARRANTY FOR INDUCTIVE AND CAPACITIVE PROXIMITY SENSORS: The periods covered for the above WARRANTIES and Products shall be 12 MONTHS, 18-MONTHS, 24-MONTHS and 5-YEARS, respectively, from the date of shipment from TURCK.

Warranty Terms and Conditions

ADDITIONAL SPECIFIC TERMS FOR - (continued)

LIFETIME WARRANTY (OPTIONAL - REGISTRATION REQUIRED) FOR INDUCTIVE, INDUCTIVE MAGNET OPERATED AND CAPACITIVE PROXIMITY SENSORS SOLD TO THE ORIGINAL PURCHASER FOR THE LIFETIME OF THE ORIGINAL APPLICATION.

The following terms apply to the LIFETIME WARRANTY in addition to the General Terms:

1) This WARRANTY shall be effective only when the LIFETIME WARRANTY REGISTRATION has been completed, signed by the End User and an authorized **TURCK** Representative or Distributor and has been received by **TURCK** no later than six (6) months after installation in the End User's Plant, or two (2) years from the date product was shipped from **TURCK**, whichever is sooner.
2) This warranty is available only to **TURCK's** authorized Representatives, Distributors and to the Original User. (The term "Original User" means that person, firm, or corporation which first uses the Product on a continuous basis in connection with the operation of a production line, piece of machinery, equipment, or similar device.) In the event the ownership of the product is transferred to a person, firm or corporation other than the Original User, this WARRANTY shall terminate.
3) This WARRANTY is applicable only to the Original Application. In the event the machinery, equipment, or production line to which the Product is connected, or on which it is installed, is substituted, changed, moved or replaced, the WARRANTY shall terminate.
4) This WARRANTY shall be valid only if the Product was purchased by the Original User from **TURCK**, or from an authorized **TURCK** Distributor, or was an integral part of a piece of machinery and equipment obtained by the Original user from an Original Equipment Manufacturer, which itself, was purchased directly from **TURCK** or from an authorized Distributor.

PURCHASER'S REMEDIES

This Remedy shall apply to all WARRANTIES. If a **TURCK** Distributor desires to make a WARRANTY Claim, the Distributor shall, if requested by **TURCK**, ship the Product to **TURCK's** factory in Minneapolis, Minnesota, postage or freight prepaid. If the User desires to make a WARRANTY Claim, they shall notify the authorized **TURCK** Distributor from whom it was purchased or, if such Distributor is unknown, shall notify **TURCK**. **TURCK** shall, at its option, take any of the following two courses of action for any products which **TURCK** determines are defective in materials or workmanship.

1) Repair or replace the Product and ship the Product to the Original Purchaser or to the authorized **TURCK** Distributor, postage or freight prepaid; or
2) Repay to the Original Purchaser that price paid by the Original Purchaser; provided that if the claim is made under the LIFETIME WARRANTY, and such Product is not then being manufactured by **TURCK**, then the amount to be repaid by **TURCK** to the Original Purchaser shall be reduced according to the following schedule:

Number of Years Since Date of Purchase by Original Purchaser	Percent of Original Purchase Price To Be Paid by TURCK
10	50%
15	25%
20	10%
More than 20	5%

PURCHASER'S REMEDIES SHALL BE LIMITED EXCLUSIVELY TO THE RIGHT OF REPLACEMENT, REPAIR OR REPAYMENT AS PROVIDED AND DOES NOT INCLUDE ANY LABOR COST OR REPLACEMENT AT ORIGINAL PURCHASER'S SITE. TURCK SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF ANY WARRANTY, EXPRESSED OR IMPLIED, APPLICABLE TO THE PRODUCT, INCLUDING WITHOUT LIMITATION, ANY DAMAGES RESULTING FROM PROPERTY DAMAGE, PERSONAL INJURY OR BUSINESS INTERRUPTION.

CONSIDER SAFETY AND PROTECTION PRECAUTIONS

TURCK takes great care to design and build reliable and dependable products, however, some products can fail eventually. You must take precautions to design your equipment to prevent property damage and personal injury in the unlikely event of failure. As a matter of policy, **TURCK** does NOT recommend the installation of electronic controls as the sole device FOR THE PROTECTION OF PERSONNEL in connection with power driven presses, brakes, shears and similar equipment and, therefore, the customer should build in redundancy or dual control using approved safety devices for these applications.

GOVERNING LAW

The sale and purchase of Products covered hereby and all terms and conditions hereof shall be governed by the law of the State of Minnesota.

TURCK

PROCESS AUTOMATION

Process Connectivity Solutions

CAN DO IT. WITHOUT CONDUIT!

Environmental Ratings:

- Moisture
- Corrosion
- Light, Heat
- Oil, Solvents
- Abrasion, Impact
- EMI/RFI
- Weld Slag
- Flexing

Network Protocols:

- Analog/HART®
- DeviceNet™
- FOUNDATION fieldbus™
- AS-interface®
- PROFIBUS®-DP
- PROFIBUS®-PA
- Ethernet

Compliance/ Approvals:

- ITC/PLTC
- Open Wiring
- FM Approved
- UL 1309
- NEC Type MC
- NEMA 6 P, IP 67

.....Sense It!.....Connect It!.....Bus It!

Open Wiring. A Better Way to Wire Your Plant.

Quick-disconnect TURCK Process Wiring can eliminate the extensive labor and expense of running conduit throughout your plant. With no wires to pull and no cutting or bending, TURCK delivers a complete connectivity solution that meets the NEC's Open Wiring requirements. With a wide selection of IP/NEMA-rated receptacles, drop cords, junction bricks and home-run cables, TURCK's connectivity products meet the demands of your facility in both hazardous and non-hazardous locations, a variety of network protocols, and maintains compliance with the most stringent code requirements.

Are TURCK's process connectivity products right for your plant? Our application engineers can answer that question and provide an analysis to help you decide.

Call us with your next application:

1-800-553-0016

email: process@turck.com

www.turck.com/process

TURCK USA
TURCK Inc.
3000 Campus Drive
Minneapolis, MN 55441
Phone: (763) 553-7300
Fax: (763) 553-0708
Application Support:
1-800-544-7769

TURCK Mexico
TURCK Mexico S. de R.L. de C.V.
Carr. Saltillo-Zacatecas km 4.5 s/n
Parque Industrial La Angostura
Saltillo, COAH. CP. 25070
Phone: 011 +52 (844) 411-6647/46
Fax: 011 +52 (844) 482-6926
Toll Free: 01-800-01-TURCK (Mexico only)
(01-800-01-88725)
email: ventasmexico@turck.com

TURCK Canada
CHARTWELL
ELECTRONICS, INC.
140 Duffield Drive
Markham, Ontario
Canada, L6G 1B5
Phone: (905) 513-7100
Fax: (905) 513-7101
Toll Free: 1-877-513-7769

TURCK
World Headquarters
Hans TURCK GmbH & Co. KG
Witzlebenstrasse 7
D-45472 Muelheim an der Ruhr
Federal Republic of Germany
Phone: (+49) 208-49 52-0
Fax: (+49) 208-49 52 264

····•Sense It!····•Connect It!····•Bus It!

Printed in the USA

12/06
B2050