

Data Highway Plus (Blue Hose[®])

The Data Highway Plus (DH+) network is a local area network that is very simple to implement. It is designed to provide simple communication between PLC's, SLC's and PC's.

The Data Highway Plus network allows connection to a maximum of 64 devices per link although 15 or fewer nodes are recommended per link. Devices include:

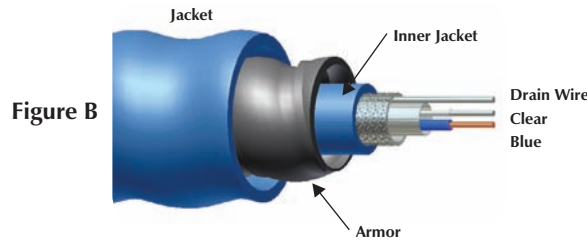
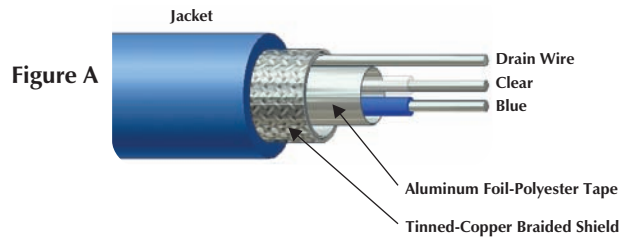
- PLC-5 and SLC 5/04 programmable controllers
- Color graphics systems
- Personal computers
- Host computers
- Numerical controls
- Programmable RS-232-C/RS-422 devices

A network can be configured with 99 links. With a multi-link network, more nodes in the network are possible.

By placing nodes in the proper link with some nodes and separate from other nodes, the efficiency of message delivery can be improved. Using simple twisted-pair wiring, DH+ can be configured as a trunk-line drop or a daisy-chain topology.

Data Highway Plus (Blue Hose®), Cable Specifications

Blue Hose is a shielded, twisted pair network cable. The cable consists of blue, clear and shield wires. A terminating resistor must be attached across the blue and clear wires at each end of the network. The resistor value depends on the baud rate selected. The cable shield must be connected to chassis ground only at the scanner end of the network.



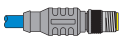

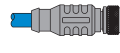

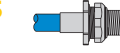
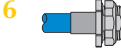

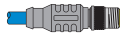
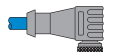
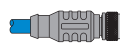
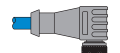
Baud Rate	Maximum Cable Length
57.6 Kbps	10,000 feet (3048 meters)
115.2 Kbps	5,000 feet (1524 meters)
230.4 Kbps	2,500 feet (762 meters)

Type	Approvals	Data Pair		Outer Jacket Material Color Nominal O.D.	Shields Type Drain Wire	Bulk Cable Part Number / Weight/300 M	Figure
		AWG Color Code	DCR (/1000 feet) Insulation				
390 AWM 2464 80°C 300 Volts	NEC CC CL2 CEC CC	2/20 AWG BU, Clear	9.5 Ohms PC	PC Blue 6 CC (.238 in)	Braid/Coil 20 AWG	RB51157-*M 36 lbs.	A
391A 60°C 300 Volts	NEC CC CL2 CEC CC CCG FT4 [HLBCD]	2/20 AWG BU, Clear	9.5 Ohms PC	Aluminum Armor/PC Blue	Armor Foil Braid	RB51199-*M 122 lbs. <i>armorfast</i> ®	B

* Indicates length in meters.
Blue Hose is a registered trademark of Belden CDT Inc.
Standard cable lengths are 1.0, 2.0, 4.0, 6.0, 10....15 meters.

Blue Hose

Data Highway Plus (Blue Hose®), Cable and Cordset Selection Matrix

		eurofast®				eurofast Bulkhead		
		Pin (Male)		Socket (Female)		Pin (Male)	Socket (Female)	
		1  RSC	3  WSC	2  RKC	4  WKC	5  FSFD	6  FKFD	
 Bare		RSC 39x-*M	WSC 39x-*M	RKC 39x-*M	WKC 39x-*M	FSFD 39x-*M	FKFD 39x-*M	
eurofast	Pin (Male)	1  RSC	RSC RSC 39x-*M	RSC WSC 39x-*M	RSC RKC 39x-*M	RSC WKC 39x-*M	RSC FSFD 39x-*M	RSC FKFD 39x-*M
		3  WSC		WSC WSC 39x-*M	WSC RKC 39x-*M	WSC WKC 39x-*M	WSC FSFD 39x-*M	WSC FKFD 39x-*M
	Socket (Female)	2  RKC			RKC RKC 39x-*M	RKC WKC 39x-*M	RKC FSFD 39x-*M	RKC FKFD 39x-*M
		4  WKC				WKC WKC 39x-*M	WKC FSFD 39x-*M	WKC FKFD 39x-*M

See page S4 for dimensional drawings.

* Indicates length in meters.

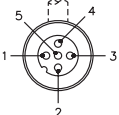

x Indicates cable type.

For **armorfast**® cable: Change part number (RSC RSC 39-*M to RSA RSA 391A-*M)

For stainless steel connectors: Change part number (RSC RSC 39-*M to RSCV RSCV 39-*M)

Refer to the Cordset Builder at www.turck.com for assistance with cordset/cable combinations.

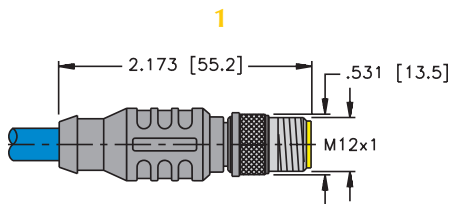
Standard cable lengths are 1.0, 2.0, 4.0, 6.0, 10....15 Meters.

eurofast	Pinouts	eurofast
Male 	1. Drain (Shield) 2. Clear (RIO #2) 3. Blue (RIO #1) 4. N/C 5. N/C	Female 

Data Highway Plus (Blue Hose®), eurofast® Cordset and Receptacle Connector Dimensions

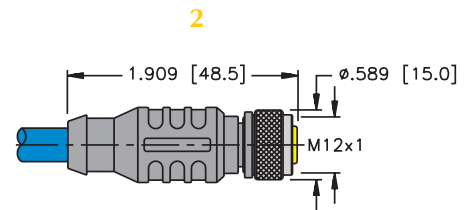
Specifications

Housing:	PUR (polyurethane)
Coupling Nut:	Nickel Plated CuZn or Stainless Steel
Contact Carrier:	TPU (Polyurethane) or POM (Nylon)
Contacts:	Gold Plated CuZn
Protection:	NEMA 1, 3, 4, 6P and IEC IP 68
Rated Voltage:	250 V
Rated Current:	4 A
Ambient Temperature:	-40° to +60°C (-40° to +140°F)



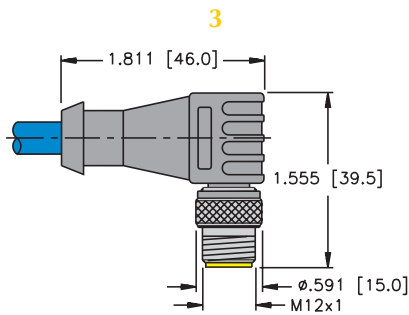
RSC ..

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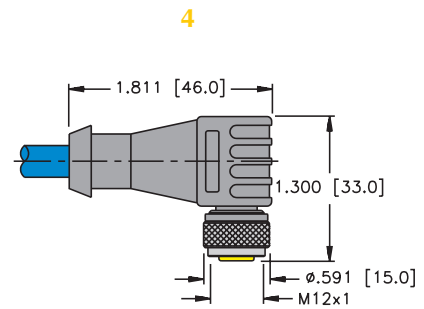
RKC ..

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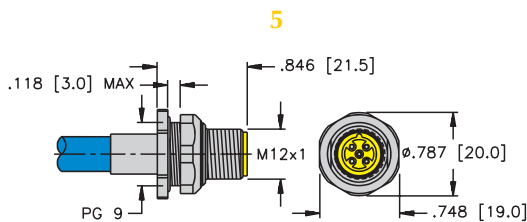
WSC ..

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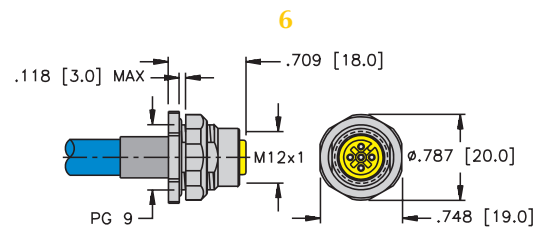
WKC ..

Page S3



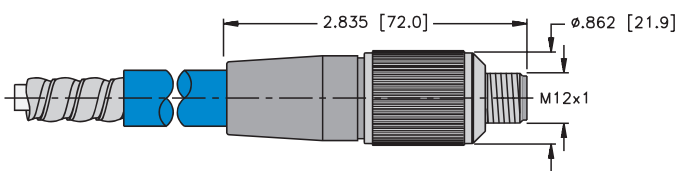
FSFD ..

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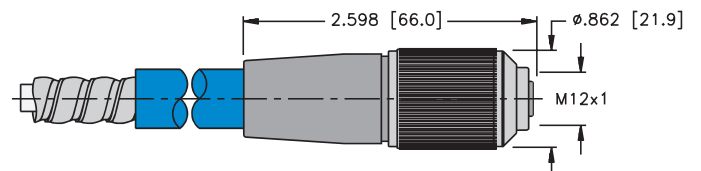
FKFD ..

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RSA ..

(armorfast® only)



RKA ..

(armorfast only)

Blue Hose

Notes

CC-Link

CC-Link (Control & Communication Link) is a field network system that processes control and information data at high speed while ensuring a deterministic response.

Features include:

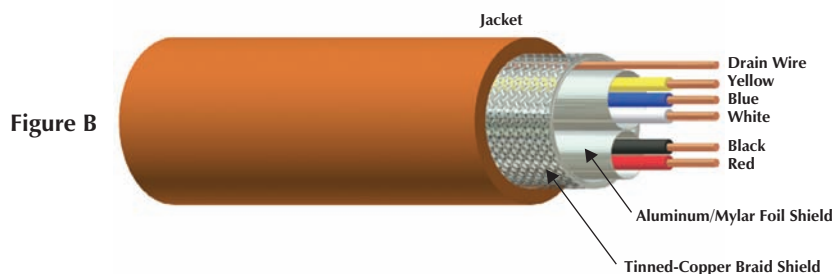
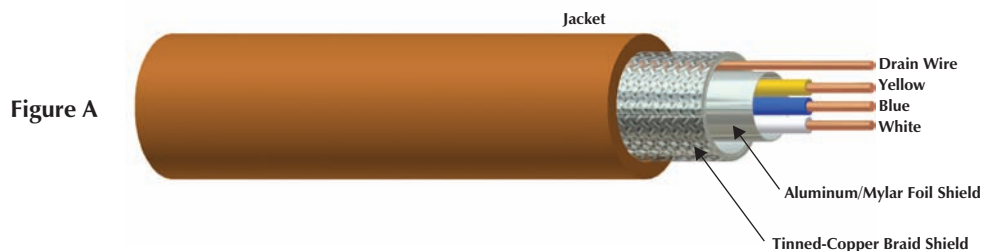
- Simple communication programming - configuration software available but not required
- Allows automation controllers to be programmed and monitored over the network
- Provides network diagnostic information
- A standby network master to assume network control if primary master goes off-line
- Bypasses network devices needing service without disrupting network traffic
- Automatically restores off-line, bypassed devices to the network
- Network devices can be added while network is operating

	CC-Link	CC-Link / LT
Maximum Number of Slaves	64	64
Max. No. of Addressable I/O Points (bit)	8192 in / 8192 out	1024 in / 1024 out
Maximum Number of Addressable Numerical Data Values (word)	2048 in / 2048 out	---
Typical Scan Rate for 64 Stations	4 ms @ 10 Mbps	2 ms @ 2.5 Mbps
Network Topology	Multi-drop, T branch, Star	T branch, Star
Error Detection System	CRC	CRC
Physical Layer	RS-485	RS-485
Media	Shielded Twisted 3-wire Cable	4-wire Flat Cable (includes power)
Communication Method	Broadcast, Polling	BITR Method
Transmission Format	HDLC	HDLC

CC-Link

CC-Link, Cable Specifications

- Cable Certified by the CC-Link Partner Association (CLPA) to Ver. 1.10 Cable Standard
- Cables are Available in 3 Conductor and 5 Conductor (with power conductors) Versions



Communication Speed	Maximum Transmission Distance	
	CC-Link Cable Ver. 1.10 CC-Link High Performance Cable	CC-Link Cable
10 Mbps	100 meters (328 feet)	100 meters (328 feet)
5 Mbps	160 meters (525 feet)	150 meters (492 feet)
2.5 Mbps	400 meters (1312 feet)	200 meters (656 feet)
625 Kbps	900 meters (2953 feet)	600 meters (1968 feet)
156 Kbps	1200 meters (3937 feet)	1200 meters (3937 feet)

Type	Approvals	Data Triad		Power Pair	Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M	Figure
		AWG Color Code	DCR (/1000 feet) Insulation	Power	Material Color Nominal O.D.	Type Drain Wire		
430 AWM 2464 75°C 300 Volts	NEC PLTC CEC [CMG]	3/20 AWG WH, YE, BU	11.4 Ohms PE	---	PVC Brown 7.7 mm (.305 in)	Foil/Braid 22 AWG	RB51126-*M 55 lbs.	A
630 AWM 2464 75°C 300 Volts	NEC PLTC CEC [CMG]	3/20 AWG WH, YE, BU	11.4 Ohms PE	2/18 AWG RD, BK	PVC Brown 10.5 mm (.413 in)	Foil/Braid 22 AWG	RB51127-*M 101 lbs.	B

* Indicates length in meters.
 Standard cable lengths are 30, 75, 150, 225 and 300 meters.

CC-Link, 630 Communication/Power Cable and Cordset Selection Matrix



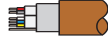


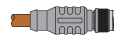
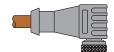
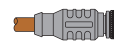
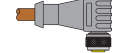
		<i>minifast</i> [®]				<i>minifast</i> Bulkhead		
		Pin (Male)		Socket (Female)		Pin (Male)	Socket (Female)	
		1 RSM	2 WSM	3 RKM	4 WKM	9 RSFP	10 RKFP	
 Bare		RSM 630-*M	WSM 630-*M	RKM 630-*M	WKM 630-*M	RSFP 630-*M	RKFP 630-*M	
<i>minifast</i>	Pin (Male)	1 RSM	RSM RSM 630-*M	RSM WSM 630-*M	RSM RKM 630-*M	RSM WKM 630-*M	RSM RSFP 630-*M	RSM RKFP 630-*M
	2 WSM		WSM WSM 630-*M	WSM RKM 630-*M	WSM WKM 630-*M	WSM RSFP 630-*M	WSM RKFP 630-*M	
	3 RKM			RKM RKM 630-*M	RKM WKM 630-*M	RKM RSFP 630-*M	RKM RKFP 630-*M	
	4 WKM				WKM WKM 630-*M	WKM RSFP 630-*M	WKM RKFP 630-*M	

See page S11 for dimensional drawings.

- * Indicates length in meters.
Standard cable lengths are 1.0, 2.0, 4.0, 6.0, 10...15 Meters. Consult factory for other lengths.
For stainless steel coupling nuts change part number RSM ... to RSV, WSM ... to WSV.

<i>minifast</i>	Pinouts	<i>minifast</i>
Male 	1. Blue (DA) 2. White (DB) 3. Yellow (DG) 4. Red (V+) 5. Black (V-) 6. Drain (Shield)	Female

CC-Link, 430 Communication Cable and Cordset Selection Matrix

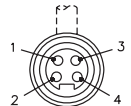
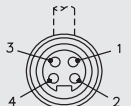
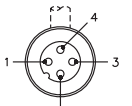
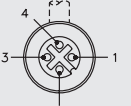
		<i>minifast</i> [®]				<i>eurofast</i> [®]	
		Pin (Male)		Socket (Female)		Pin (Male)	
		1  RSM	2  WSM	3  RKM	4  WKM	5  RSC	
 Bare		RSM 430-*M	WSM 430-*M	RKM 430-*M	WKM 430-*M	RSC 430-*M	
<i>minifast</i>	Pin (Male)	1  RSM	RSM RSM 430-*M	RSM WSM 430-*M	RSM RKM 430-*M	RSM WKM 430-*M	RSM RSC 430-*M
	Pin (Male)	2  WSM		WSM WSM 430-*M	WSM RKM 430-*M	WSM WKM 430-*M	WSM RSC 430-*M
	Socket (Female)	3  RKM			RKM RKM 430-*M	RKM WKM 430-*M	RKM RSC 430-*M
	Socket (Female)	4  WKM				WKM WKM 430-*M	WKM RSC 430-*M
<i>eurofast</i>	Pin (Male)	5  RSC					RSC RSC 430-*M
	Pin (Male)	6  WSC					
	Socket (Female)	7  RKC					
	Socket (Female)	8  WKC					

See pages S11 - S12 for dimensional drawings.

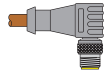
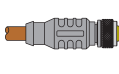
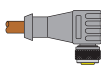
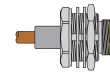
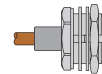
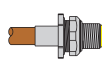
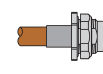
* Indicates length in meters.

Standard cable lengths are 1.0, 2.0, 4.0, 6.0, 10...15 Meters. Consult factory for other lengths.

For stainless steel coupling nuts change part number RSM... to RSV, WSM... to WSV.

<i>minifast</i>		Pinouts	<i>eurofast</i>	
Male	Female	1. Grey (Drain) 2. White (DB) 3. Yellow (DG) 4. Blue (DA)	Male	Female
				

CC-Link, 430 Communication Cable and Cordset Selection Matrix

<i>euofast</i> [®]			<i>minifast</i> [®] Bulkhead		<i>euofast</i> Bulkhead (Thin Only)	
Pin (Male)	Socket (Female)		Pin (Male)	Socket (Female)	Pin (Male)	Socket (Female)
6  WSC	7 	8 	9 	10 	11 	12 
WSC 430-*M	RKC 430-*M	WKC 430-*M	RSFP 430-*M	RKFP 430-*M	FSFD 430-*M	FKFD 430-*M
RSM WSC 430-*M	RSM RKC 430-*M	RSM WKC 430-*M	RSM RSFP 430-*M	RSM RKFP 430-*M	RSM FSFD 430-*M	RSM FKFD 430-*M
WSM WSC 430-*M	WSM RKC 430-*M	WSM WKC 430-*M	WSM RSFP 430-*M	WSM RKFP 430-*M	WSM FSFD 430-*M	WSM FKFD 430-*M
RKM WSC 430-*M	RKM RKC 430-*M	RKM WKC 430-*M	RKM RSFP 430-*M	RKM RKFP 430-*M	RKM FSFD 430-*M	RKM FKFD 430-*M
WKM WSC 430-*M	WKM RKC 430-*M	WKM WKC 430-*M	WKM RSFP 430-*M	WKM RKFP 430-*M	WKM FSFD 430-*M	WKM FKFD 430-*M
RSC WSC 430-*M	RSC RKC 430-*M	RSC WKC 430-*M	RSC RSFP 430-*M	RSC RKFP 430-*M	RSC FSFD 430-*M	RSC FKFD 430-*M
WSC WSC 430-*M	WSC RKC 430-*M	WSC WKC 430-*M	WSC RSFP 430-*M	WSC RKFP 430-*M	WSC FSFD 430-*M	WSC FKFD 430-*M
	RKC RKC 430-*M	RKC WKC 430-*M	RKC RSFP 430-*M	RKC RKFP 430-*M	RKC FSFD 430-*M	RKC FKFD 430-*M
		WKC WKC 430-*M	WKC RSFP 430-*M	WKC RKFP 430-*M	WKC FSFD 430-*M	WKC FKFD 430-*M

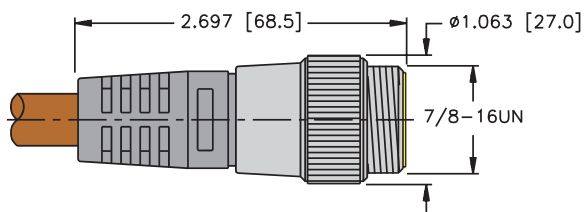
CC-Link

CC-Link, minifast® Cordset and Receptacle Connector Dimensions

Specifications

Housing:	TPU (Polyurethane)
Coupling Nut:	Nickel Plated CuZn or Stainless Steel
Contact Carrier:	TPU (Polyurethane)
Contacts:	Gold Plated CuZn
Protection:	NEMA 1, 3, 4, 6P and IEC IP 68
Rated Voltage:	300 V
Rated Current:	9 A
Ambient Temperature:	-40°C to +75°C

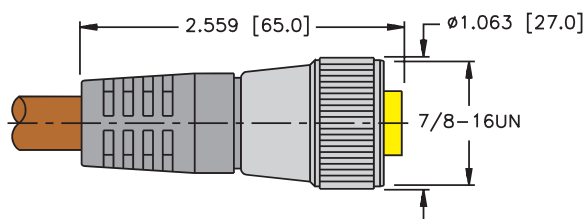
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RSM ..

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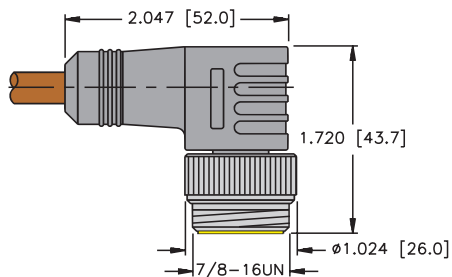
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RKM ..

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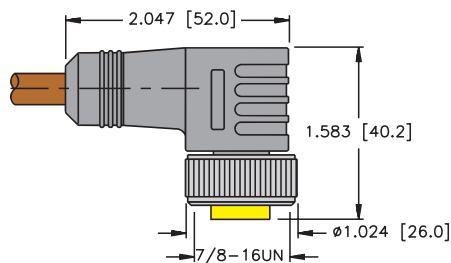
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WSM ..

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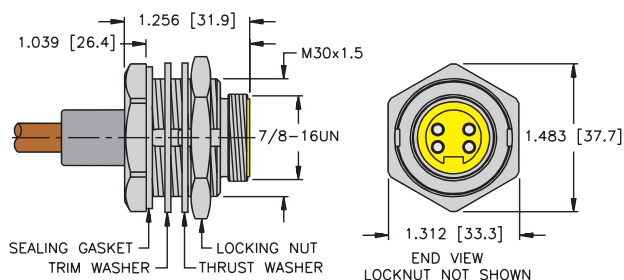
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WKM ..

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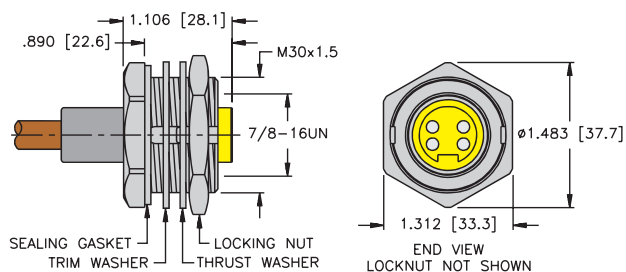
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RSFP ..

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10



RKFP ..

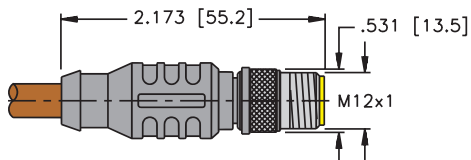
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CC-Link, eurofast® Cordset and Receptacle Connector Dimensions

Specifications

Housing: PUR (Polyurethane)
Coupling Nut: Nickel Plated CuZn or Stainless Steel
Contact Carrier: TPU (Polyurethane) or POM (Nylon)
Contacts: Gold Plated CuZn
Protection: NEMA 1, 3, 4, 6P and IEC IP 68
Rated Voltage: 250 V
Rated Current: 4 A
Ambient Temperature: -40°C to +75°C

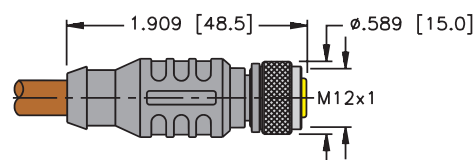
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RSC ..

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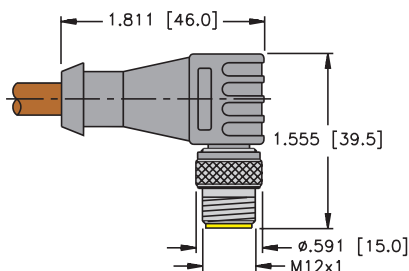
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RKC ..

Pages S8 - S10

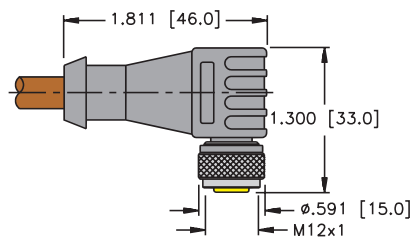
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WSC ..

Pages S8 - S10

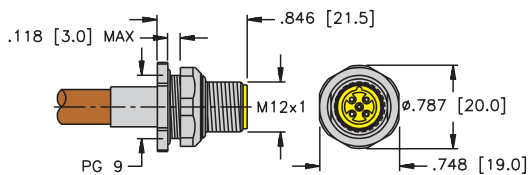
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WKC ..

Pages S8 - S10

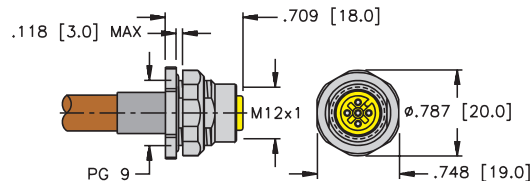
11



FSFD ..

Pages S8 - S10

12



FKFD ..

Pages S8 - S10

CC-link

CC-Link, (7/8-16UN) *minifast*® 4-wire Panel Mount Receptacles

- Mounted for Quick Connection to Enclosures



Housing	Part Number	Specs	Application	Pinouts	
<p>1</p>	RSFV 43	Nickel Plated CuZn or Stainless Steel 300 V, 9 A -40°C to +105°C	1/2-14NPT threads, standard duty	1. GY 2. WH 3. YE 4. BU	<p>Male</p>
<p>2</p>	RKFV 43				<p>Female</p>

See page S16 for dimensional drawings.

Standard cable length is 0.5 meters. Consult factory for other lengths.

Standard housing material is nickel plated cast zinc. "RKF .."; "RKFV .." indicates 316 stainless steel housing (leads only)

CC-Link, (M12x1) *euromast*® 4-wire Panel Mount Receptacles

- Mounted for Quick Connection to Enclosures



Housing	Part Number	Specs	Application	Pinouts
<p>3</p>	FSV 43	Nickel Plated CuZn or Stainless Steel 250 V, 4 A -40°C to +105°C	PG 9 threads	<p>Male</p>
<p>4</p>	FKV 43			<p>Female</p>

See page S16 for dimensional drawings.

Standard cable length is 0.5 meters. Consult factory for other lengths.

Standard housing material is nickel plated cast zinc. "RKF .."; "RKFV .." indicates 316 stainless steel housing (leads only)

CC-Link, (7/8-16UN) *minifast*® 6-wire Panel Mount Receptacles

- Mounted for Quick Connection to Enclosures



Housing	Part Number	Specs	Application	Pinout
<p>1</p>	RSF 63	Nickel Plated CuZn or Stainless Steel 250 V, 4 A -40°C to +105°C	1/2-14NPT threads, standard duty	<p>Male</p>
<p>2</p>	RKF 63			<p>Female</p>

See page S16 for dimensional drawings.

Standard cable length is 0.5 Meters. Consult factory for other lengths.

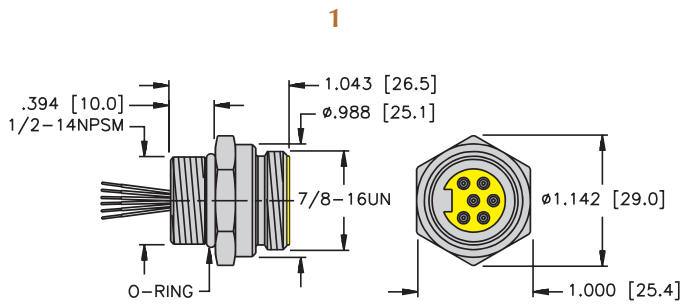
Receptacles require a 13/16" (21 mm) clearance hole for panel mounting.

Standard housing material is nickel plated cast zinc. "RKF .."; "RKFV .." indicates 316 stainless steel housing (leads only) and "RKFK .." indicates nylon housing.

For locknuts to be included, add "W/LN" to the end of the part number.

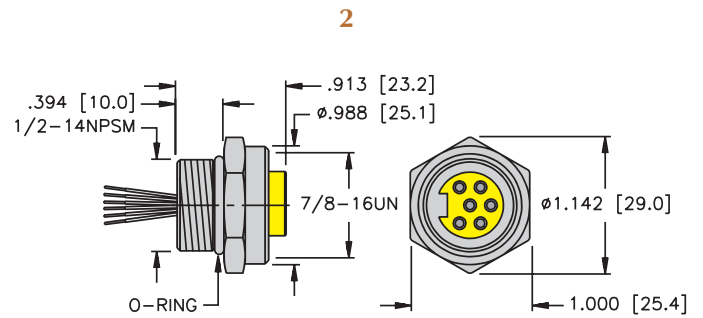
To specify PVC jacketed cable, add "/S717" to the end of the part number.

minifast® Male and Female Receptacles



RSF .. 1/2-14NPSM

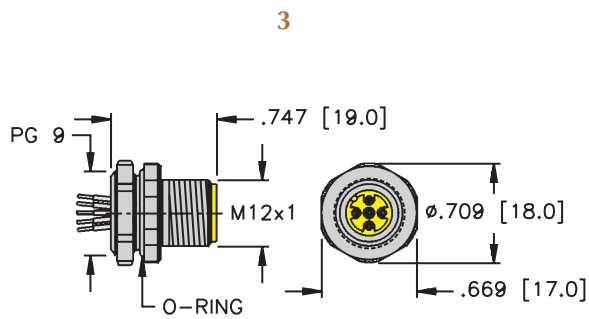
Page S13, S15



RKF .. 1/2-14NPT

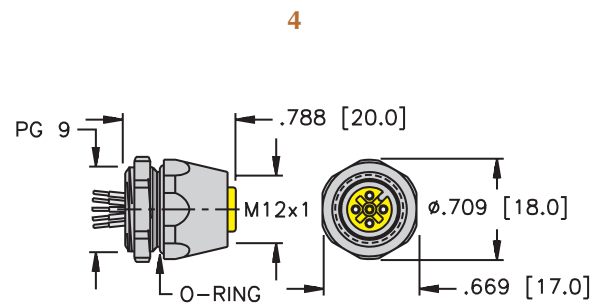
Page S13, S15

eurofast® Male and Female Receptacles



FS .. PG 9

Page S14



FK .. PG 9

Page S14

Genius I/O

Genius bus from GE Fanuc is a proven I/O bus and communications network. It can handle large I/O and data transfers.

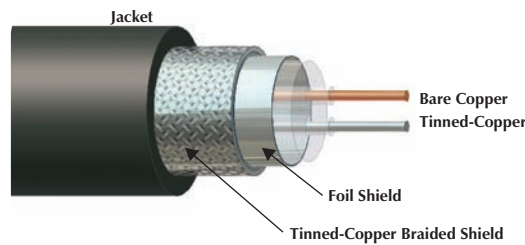
Features and benefits:

- Robust for superior data integrity and noise immunity
- Deterministic
- Supports redundant configurations (both cable and I/O)
- Available on a variety of GE Fanuc products

Supported by many third-party interfaces: variable frequency drives, operator interfaces, human machine interfaces, etc.

Genius I/O, 470 Cable Specifications

- Cable that Meets the Requirements of Genius I/O Systems and Communications Standard
- This is a Twin Axial Cable with 100 Ohm Impedance





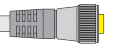
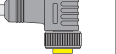






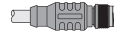
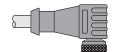
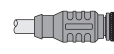
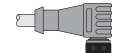
Max Bus Length:

- 7500 feet with 16 devices at 38.4 Kbaud
- 3500 feet with 32 devices at 153.6 Kbaud

Type	Approvals	Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M
		AWG Color Code	DCR (/1000 feet) Insulation	Material Color Nominal O.D.	Type Drain Wire	
470 75°C 300 Volts	NEC CMG CL2 CEC CMG	2/20 AWG Natural, Natural	9.5 Ohms PE	PVC Black 8.4 mm (.330 in)	Foil/Braid	RB51153-*M 68 lbs.

* Indicates length in meters.
Standard cable lengths are 1.0, 2.0, 4.0, 6.0, 10....15 meters. Consult factory for other lengths.
Genius I/O is a registered trademark of GE.

Genius I/O, 470 Communication Cable and Cordset Selection Matrix





		<i>minifast</i> [®]				<i>eurofast</i> [®]	
		Pin (Male)		Socket (Female)		Pin (Male)	
		1  RSM	2  WSM	3  RKM	4  WKM	5  RSC	
 Bare		RSM 470-*M	WSM 470-*M	RKM 470-*M	WKM 470-*M	RSC 470-*M	
<i>minifast</i>	Pin (Male)	1  RSM	RSM RSM 470-*M	RSM WSM 470-*M	RSM RKM 470-*M	RSM WKM 470-*M	RSM RSC 470-*M
	2  WSM		WSM WSM 470-*M	WSM RKM 470-*M	WSM WKM 470-*M	WSM RSC 470-*M	
	3  RKM			RKM RKM 470-*M	RKM WKM 470-*M	RKM RSC 470-*M	
	4  WKM				WKM WKM 470-*M	WKM RSC 470-*M	
<i>eurofast</i>	5  RSC					RSC RSC 470-*M	
	6  WSC						
	7  RKC						
	8  WKC						

See pages S21 - S22 for dimensional drawings.


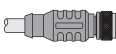

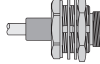

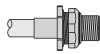

* Indicates length in meters.

Standard cable lengths are 1.0, 2.0, 4.0, 6.0, 10...15 meters. Consult factory for other lengths.

For stainless steel coupling nuts change part number RSM... to RSV, WSM... to WSV.

<i>minifast</i>		Pinouts	<i>eurofast</i>	
Male 	Female 	1. Silver 2. Copper 3. N/C 4. Drain	Male 	Female 

Genius I/O, 470 Communication Cable and Cordset Selection Matrix

<i>euromast</i> [®]			<i>minifast</i> [®] Bulkhead		<i>euromast</i> Bulkhead (thin only)	
Pin (Male)	Socket (Female)		Pin (Male)	Socket (Female)	Pin (Male)	Socket (Female)
6 	7 	8 	9 	10 	11 	12 
WSC	RKC	WKC	RSFP	RKFP	FSFD	FKFD
WSC 470-*M	RKC 470-*M	WKC 470-*M	RSFP 470-*M	RKFP 470-*M	FSFD 470-*M	FKFD 470-*M
RSM WSC 470-*M	RSM RKC 470-*M	RSM WKC 470-*M	RSM RSFP 470-*M	RSM RKFP 470-*M	RSM FSFD 470-*M	RSM FKFD 470-*M
WSM WSC 470-*M	WSM RKC 470-*M	WSM WKC 470-*M	WSM RSFP 470-*M	WSM RKFP 470-*M	WSM FSFD 470-*M	WSM FKFD 470-*M
RKM WSC 470-*M	RKM RKC 470-*M	RKM WKC 470-*M	RKM RSFP 470-*M	RKM RKFP 470-*M	RKM FSFD 470-*M	RKM FKFD 470-*M
WKM WSC 470-*M	WKM RKC 470-*M	WKM WKC 470-*M	WKM RSFP 470-*M	WKM RKFP 470-*M	WKM FSFD 470-*M	WKM FKFD 470-*M
RSC WSC 470-*M	RSC RKC 470-*M	RSC WKC 470-*M	RSC RSFP 470-*M	RSC RKFP 470-*M	RSC FSFD 470-*M	RSC FKFD 470-*M
WSC WSC 470-*M	WSC RKC 470-*M	WSC WKC 470-*M	WSC RSFP 470-*M	WSC RKFP 470-*M	WSC FSFD 470-*M	WSC FKFD 470-*M
	RKC RKC 470-*M	RKC WKC 470-*M	RKC RSFP 470-*M	RKC RKFP 470-*M	RKC FSFD 470-*M	RKC FKFD 470-*M
		WKC WKC 470-*M	WKC RSFP 470-*M	WKC RKFP 470-*M	WKC FSFD 470-*M	WKC FKFD 470-*M

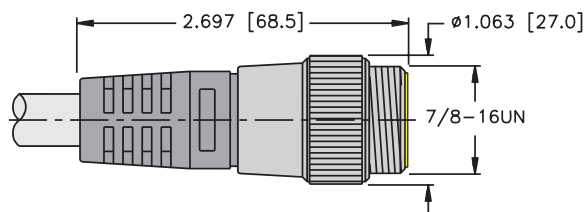
Genius I/O

Genius I/O, minifast® Cordset and Receptacle Connector Dimensions

Specifications

Housing:	PUR (Polyurethane)
Coupling Nut:	Nickel Plated CuZn or Stainless Steel
Contact Carrier:	TPU (Polyurethane)
Contacts:	Gold Plated CuZn
Protection:	NEMA 1, 3, 4, 6P and IEC IP 68
Rated Voltage:	300 V
Rated Current:	9 A
Ambient Temperature:	-40°C to +75°C

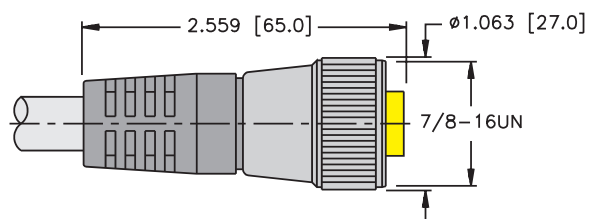
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RSM ..

Pages S19 - S20

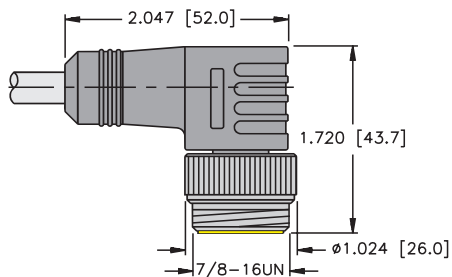
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RKM ..

Pages S19 - S20

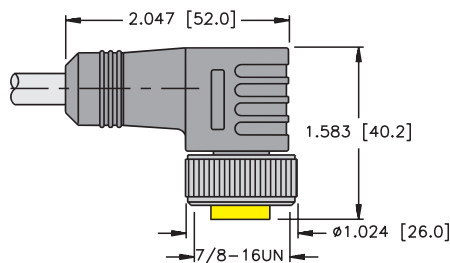
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WSM ..

Pages S19 - S20

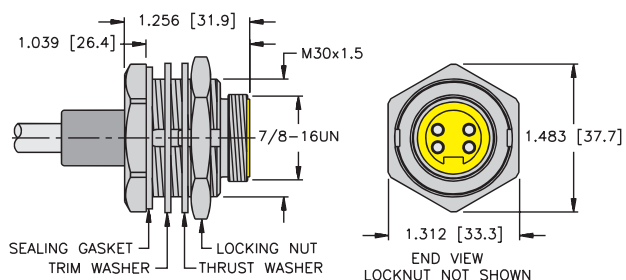
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WKM ..

Pages S19 - S20

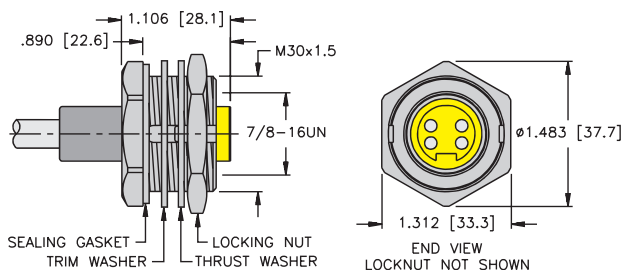
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RSFP ..

Pages S19 - S20

10



RKFP ..

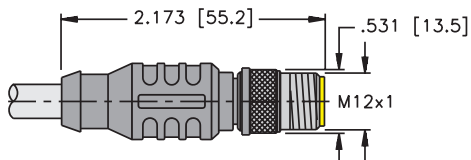
Pages S19 - S20

Genius I/O, eurofast® Cordset and Receptacle Connector Dimensions

Specifications

Housing:	PUR (Polyurethane)
Coupling Nut:	Nickel Plated CuZn or Stainless Steel
Contact Carrier:	TPU (Polyurethane) or POM (Nylon)
Contacts:	Gold Plated CuZn
Protection:	NEMA 1, 3, 4, 6P and IEC IP 68
Rated Voltage:	250 V
Rated Current:	4 A
Ambient Temperature:	-40°C to +75°C

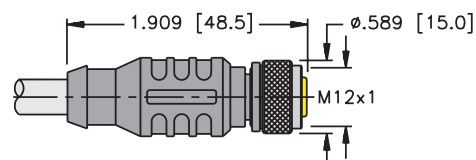
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RSC ..

Pages S19 - S20

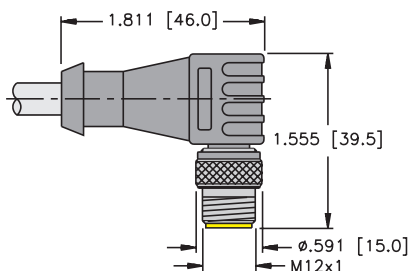
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RKC ..

Pages S19 - S20

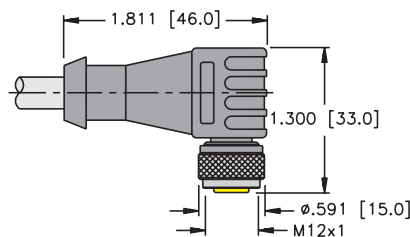
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WSC ..

Pages S19 - S20

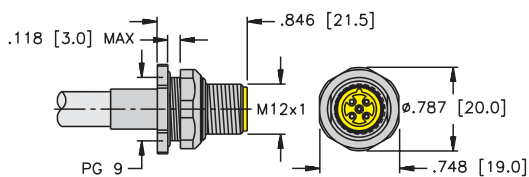
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WKC ..

Pages S19 - S20

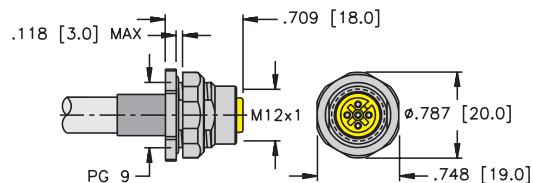
11



FSFD ..

Pages S19 - S20

12



FKFD ..

Pages S19 - S20

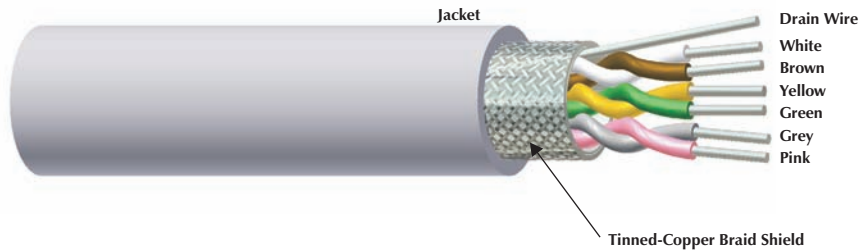
Interbus

Interbus has been designed as a fast sensor / actuator bus for transmitting process data in industrial environments.

Bus Type	Remote bus: token passing with repeater nodes; Local bus: master-to-slave
Maximum Number of Nodes	Remote bus: 64 in / 64 out; Local bus: 192 in / 192 out
Bus Topology	Remote bus: repeater ring; Local bus: bus
Maximum Network Length	400 meters between remote bus nodes; 10 meters on local bus (can accommodate three slaves)
Transmission Media	Remote bus: twisted pairs with shield/drain; Local bus: 5 pairs twisted
Inputs / Outputs bits Node	8/8 minimum for each node; 2048/2048 total for all nodes
Speed	500 Kbps
Bus Power (for field nodes)	From busline or separate power source
Duplicate Address Detection	To some degree: master assigns a virtual address based upon physical order
Attendance Check	Per scan
Error Detection	CRC checksum
Error Correction Type	Data not validated by checksum is flagged as bad and not used - nodes wait for 3 consecutive scans of validated data before data can be used
Determinism	Deterministic but not during error correction

Interbus[®], Cable Specifications

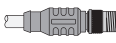




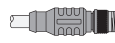
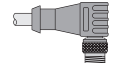
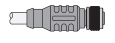
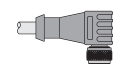
- Cable that Meets the Requirements of Interbus-S (IBS) Remote Bus Cable
- Remote Bus Cable Contains Three Twisted Pair Wires, and a Drain Wire for Communication Only, No Power



Type	Approvals	Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M
		AWG Color Code	DCR (/1000 feet) Insulation	Material Color Nominal O.D.	Type Drain Wire	
660 AWM 2464 80°C 300 Volts	NEC AWM CEC AWM I/II A/B FT1	6/24 AWG PK/GY, GN/YE, WH/BN	26.2 Ohms PE	PVC Beige 7.4 mm (.290 in)	Braid 24 AWG	RB50699-*M 51 lbs.

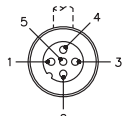

* Indicates length in meters.
Standard cable lengths are 30, 75, 150, 225, and 300 meters.
Interbus is a registered trademark of Phoenix Contact.

Interbus® , Cable and Cordset Selection Matrix

		eurofast®				
		Pin (Male)		Socket (Female)		
		1  RSS	3  WSS	2  RKS	4  WKS	
 Bare		RSS 660-*M	WSS 660-*M	RKS 660-*M	WKS 660-*M	
eurofast	Pin (Male)	1  RSS	RSS RSS 660-*M	RSS WSS 660-*M	RSS RKS 660-*M	RSS WKS 660-*M
	3  WSS	WSS RSS 660-*M	WSS WSS 660-*M	WSS RKS 660-*M	WSS WKS 660-*M	
	2  RKS	RKS RSS 660-*M	RKS WSS 660-*M	RKS RKS 660-*M	RKS WKS 660-*M	
	4  WKS	WKS RSS 660-*M	WKS WSS 660-*M	WKS RKS 660-*M	WKS WKS 660-*M	

See page S26 for dimensional drawings.

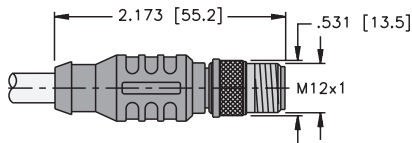
* Indicates length in meters.
Standard cable lengths are 1.0, 2.0, 4.0, 6.0, 10....15 Meters. Consult factory for other lengths.
For stainless steel coupling nuts change part number RSS... to RSV, WSS... to WSV.

eurofast	Pinouts	eurofast
<p>Male</p> 	<p>1. Yellow (DO) 2. Green (DO) 3. Grey (DI) 4. Pink (DI) 5. Brown (COM)</p>	<p>Female</p> 

Specifications

Housing:	PUR (Polyurethane)
Coupling Nut:	Nickel Plated CuZn or Stainless Steel
Contact Carrier:	TPU (Polyurethane) or POM (Nylon)
Contacts:	Gold Plated CuZn
Protection:	NEMA 1, 3, 4, 6P and IEC IP 68
Rated Voltage:	250 V
Rated Current:	4 A
Ambient Temperature:	-40° to +80°C (-40° to +176°F)

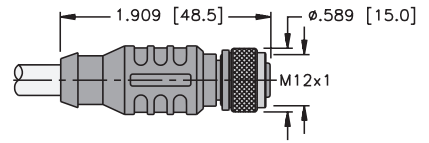
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RSS ..

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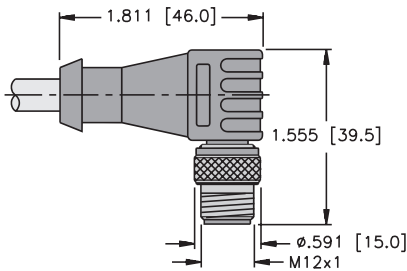
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RKS ..

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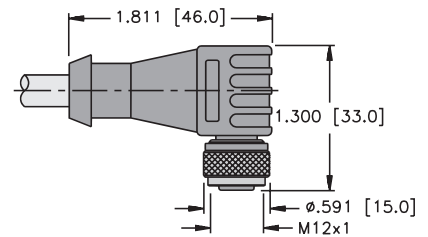
2



WSS ..

Page S25

4



WKS ..

Page S25

Notes

Smart Distributed System (SDS)

The Smart Distributed System, developed by Honeywell's MICRO SWITCH Division, is a bus system for intelligent sensors and actuators. The SDS system is based on **CAN** as defined in the Bosch V2.0 CAN Specification. SDS allows multiple nodes to share a single bus.

Over a single 4-wire cable, Smart Distributed System can interface up to 64 nodes with a maximum of 126 addresses. These intelligent sensor and actuator devices do more than just turn on and off. Smart Distributed System devices have advanced device-level functions, system and device diagnostics.

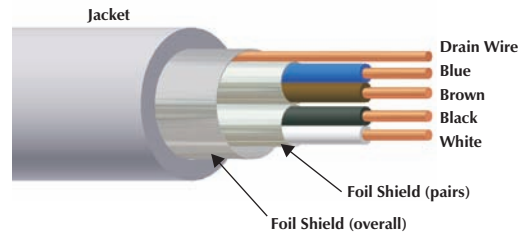
SDS is based on a three layer communication model. The **Application Layer** specifies system services and protocol. The **Data Link Layer** provides functions and procedures to establish, maintain and release data-link-connections among devices on the network and to transfer data-link-service-data-units. The **Physical Layer** provides the mechanical, electrical, functional and procedural means to activate, maintain and de-activate physical connections for bit transmission between data-link-entities. Physical Layer devices are interconnected by physical media.

TURCK

Network Media Products

SDS™, Micro Cable Specifications

- Cable that Meets the Physical Layer Specifications of Smart Distributed System (SDS)



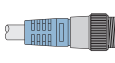

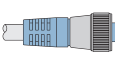

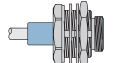
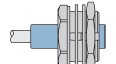
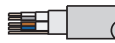
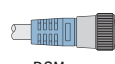
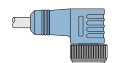
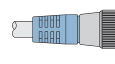
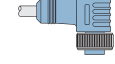
Maximum Trunk Lengths for various data rates independent of bus voltage drop

Maximum Trunk Length	Data Transmission Rate	Maximum Branch Length	Maximum Number of Nodes
22.8 meters (75 feet)	1 Mbit/s	0.3 meters (1 feet)	32
91.4 meters (300 feet)	500 Kbit/s	0.9 meters (3 feet)	64
182.8 meters (600 feet)	250 Kbit/s	1.8 meters (6 feet)	64
457.2 meters (1500 feet)	125 Kbit/s	3.6 meters (12 feet)	64

Type	Approvals	Power Pair		Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M
		AWG Color Code	DCR (/1000 feet) Insulation	AWG Color Code	DCR (/1000 feet) Insulation			
532 AWM 2464 75°C 300 Volts	NEC PLTC CEC AWM-I/II A/B FT4	2/22 AWG BU/BN	17 Ohms PVC	2/22 AWG WH/BK	17 Ohms PE	PVC Grey 7.3 mm (.285 in)	Foil 22 AWG	RB50604-*M 41 lbs.
531 AWM 2464 75°C 300 Volts	NEC PLTC CEC AWM-I/II A/B FT4	2/16 AWG BU/BN	4.3 Ohms PVC	2/22 AWG WH/BK	17 Ohms PE	PVC Grey 8.4 mm (.330 in)	Foil 22 AWG	RB50591-*M 69 lbs.
530 AWM 2464 80°C 300 Volts	NEC PLTC CEC AWM-I/II A/B FT4	2/16 AWG BU/BN	4.3 Ohms PVC	2/20 AWG WH/BK	10 Ohms PE	PVC Grey 10.4 mm (.409 in)	Foil 20 AWG	RB50628-*M 94 lbs.

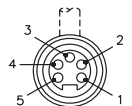
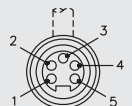
* Indicates length in meters.

SDS™, Mini Cable and Cordset Selection Matrix - 530

		<i>minifast</i> ®				<i>minifast</i>		
		Pin (Male)		Socket (Female)		Pin (Male)	Socket (Female)	
		1  RSM	2  WSM	3  RKM	4  WKM	9  RSFP	10  RKFP	
 Bare		RSM 530-*M	WSM 530-*M	RKM 530-*M	WKM 530-*M	RSFP 530-*M	RKFP 530-*M	
<i>minifast</i>	Pin (Male)	1  RSM	RSM RSM 530-*M	RSM WSM 530-*M	RSM RKM 530-*M	RSM WKM 530-*M	RSM RSFP 530-*M	RSM RKFP 530-*M
	2  WSM		WSM WSM 530-*M	WSM RKM 530-*M	WSM WKM 530-*M	WSM RSFP 530-*M	WSM RKFP 530-*M	
	3  RKM			RKM RKM 530-*M	RKM WKM 530-*M	RKM RSFP 530-*M	RKM RKFP 530-*M	
	4  WKM				WKM WKM 530-*M	WKM RSFP 530-*M	WKM RKFP 530-*M	

See pages S33 for dimensional drawings.

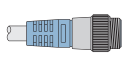
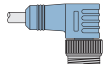
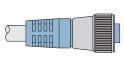
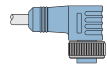
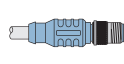
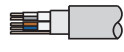
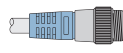
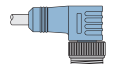
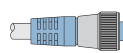
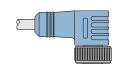
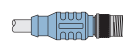
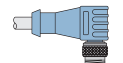
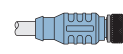
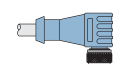
- * Indicates length in meters.
- Refer to the Cordset Builder at www.turck.com for assistance with cordset/cable combinations.
- Standard cable lengths are 1.0, 2.0, 4.0, 6.0, 10...15 meters. Consult factory for other lengths.
- For stainless steel coupling nuts change part number RSM ... to RSV, WSM ... to WSV.

<i>minifast</i>	Pinouts	<i>minifast</i>
Male 	1. Bare (Shield Drain Wire) 2. Brown (+ Voltage) 3. Blue (- Voltage) 4. Black (CAN_H) 5. White (CAN_L)	Female 

TURCK

Network Media Products

SDS™, Micro and Mid Cable and Cordset Selection Matrix - 532, 531

		<i>minifast</i> ®				<i>eurofast</i> ® (Thin/Mid Only)	
		Pin (Male)		Socket (Female)		Pin (Male)	
		1  RSM	2  WSM	3  RKM	4  WKM	5  RSC	
 Bare		RSM 53x-*M	WSM 53x-*M	RKM 53x-*M	WKM 53x-*M	RSC 53x-*M	
<i>minifast</i>	Pin (Male)	1  RSM	RSM RSM 53x-*M	RSM WSM 53x-*M	RSM RKM 53x-*M	RSM WKM 53x-*M	RSM RSC 53x-*M
	Pin (Male)	2  WSM		WSM WSM 53x-*M	WSM RKM 53x-*M	WSM WKM 53x-*M	WSM RSC 53x-*M
	Socket (Female)	3  RKM			RKM RKM 53x-*M	RKM WKM 53x-*M	RKM RSC 53x-*M
	Socket (Female)	4  WKM				WKM WKM 53x-*M	WKM RSC 53x-*M
<i>eurofast (thin/mid only)</i>	Pin (Male)	5  RSC					RSC RSC 53x-*M
	Pin (Male)	6  WSC					
	Socket (Female)	7  RKC					
	Socket (Female)	8  WKC					

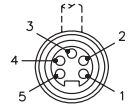
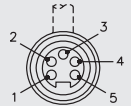
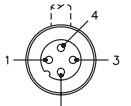
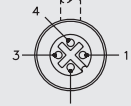
See pages S33 - S34 for dimensional drawings.

* Indicates length in meters.

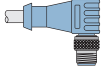
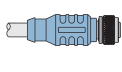
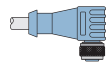
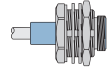
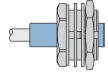
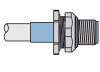
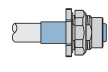
x Indicates cable type.

Standard cable lengths are 1.0, 2.0, 4.0, 6.0, 10....15 meters. Consult factory for other lengths.

For stainless steel coupling nuts change part number RSM ... to RSV, WSM ... to WSV.

<i>minifast</i>	Pinouts	<i>minifast</i>	<i>eurofast</i>	Pinouts	<i>eurofast</i>
Male 	1. Bare (Shield Drain Wire) 2. Brown (+ Voltage) 3. Blue (- Voltage) 4. Black (CAN_H) 5. White (CAN_L)	Female 	Male 	1. Brown (+ Voltage) 2. Blue (- Voltage) 3. White (CAN_L) 4. Black (CAN_H)	Female 

SDS™, Micro and Mid Cable and Cordset Selection Matrix - 532, 531

<i>euromast</i> ®			<i>minifast</i> ® Bulkhead		<i>euromast</i> Bulkhead	
Pin (Male)	Socket (Female)		Pin (Male)	Socket (Female)	Pin (Male)	Socket (Female)
6  WSC	7 	8 	9 	10 	11 	12 
WSC 53x-*M	RKC 53x-*M	WKC 53x-*M	RSFP 53x-*M	RKFP 53x-*M	FSFD 53x-*M	FKFD 53x-*M
RSM WSC 53x-*M	RSM RKC 53x-*M	RSM WKC 53x-*M	RSM RSFP 53x-*M	RSM RKFP 53x-*M	RSM FSFD 53x-*M	RSM FKFD 53x-*M
WSM WSC 53x-*M	WSM RKC 53x-*M	WSM WKC 53x-*M	WSM RSFP 53x-*M	WSM RKFP 53x-*M	WSM FSFD 53x-*M	WSM FKFD 53x-*M
RKM WSC 53x-*M	RKM RKC 53x-*M	RKM WKC 53x-*M	RKM RSFP 53x-*M	RKM RKFP 53x-*M	RKM FSFD 53x-*M	RKM FKFD 53x-*M
WKM WSC 53x-*M	WKM RKC 53x-*M	WKM WKC 53x-*M	WKM RSFP 53x-*M	WKM RKFP 53x-*M	WKM FSFD 53x-*M	WKM FKFD 53x-*M
RSC WSC 53x-*M	RSC RKC 53x-*M	RSC WKC 53x-*M	RSC RSFP 53x-*M	RSC RKFP 53x-*M	RSC FSFD 53x-*M	RSC FKFD 53x-*M
WSC WSC 53x-*M	WSC RKC 53x-*M	WSC WKC 53x-*M	WSC RSFP 53x-*M	WSC RKFP 53x-*M	WSC FSFD 53x-*M	WSC FKFD 53x-*M
	RKC RKC 53x-*M	RKC WKC 53x-*M	RKC RSFP 53x-*M	RKC RKFP 53x-*M	RKC FSFD 53x-*M	RKC FKFD 53x-*M
		WKC WKC 53x-*M	WKC RSFP 53x-*M	WKC RKFP 53x-*M	WKC FSFD 53x-*M	WKC FKFD 53x-*M

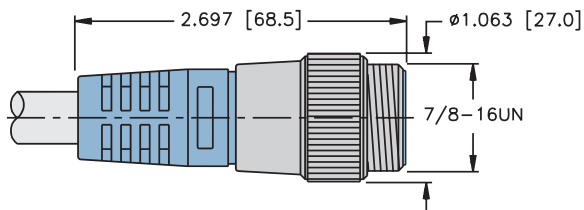
SDS

SDS™, minifast® Cordset and Receptacle Connector Dimensions

Specifications

Housing:	PUR (Polyurethane)
Coupling Nut:	Nickel Plated CuZn or Stainless Steel
Contact Carrier:	TPU (Polyurethane)
Contacts:	Gold Plated CuZn
Protection:	NEMA 1, 3, 4, 6P and IEC IP 68
Rated Voltage:	300 V
Rated Current:	9 A
Ambient Temperature:	-40° to +75°C (-40° to +167°F)

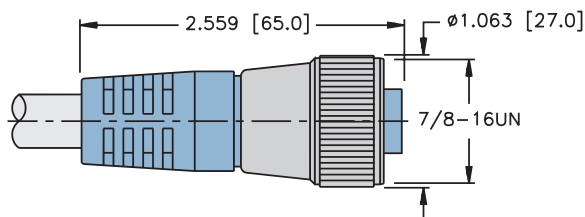
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RSM ..

Pages S30 - S32

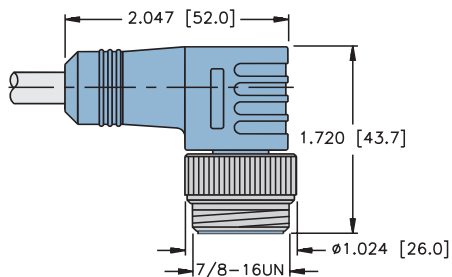
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RKM ..

Pages S30 - S32

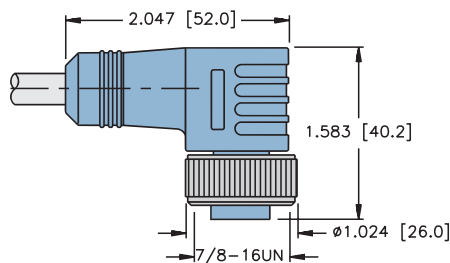
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WSM ..

Pages S30 - S32

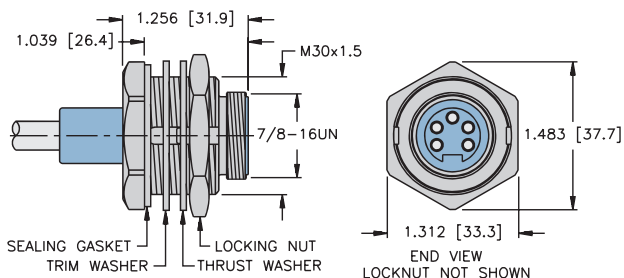
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WKM ..

Pages S30 - S32

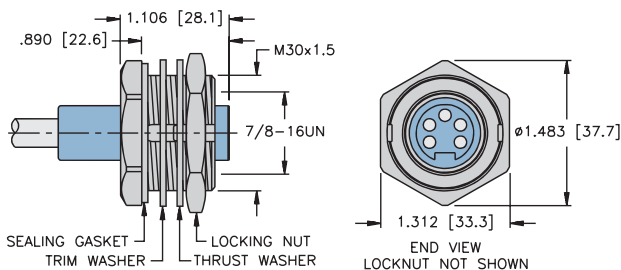
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RSFP ..

Pages S30 - S32

10



RKFP ..

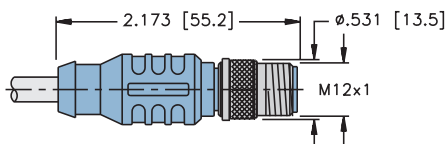
Pages S30 - S32

SDS™, eurofast® Cordset and Receptacle Connector Dimensions

Specifications

Housing:	PUR (Polyurethane)
Coupling Nut:	Nickel Plated CuZn or Stainless Steel
Contact Carrier:	TPU (Polyurethane) or POM (Nylon)
Contacts:	Gold Plated CuZn
Protection:	NEMA 1, 3, 4, 6P and IEC IP 68
Rated Voltage:	250 V
Rated Current:	4 A
Ambient Temperature:	-40° to +75°C (-40° to +167°F)

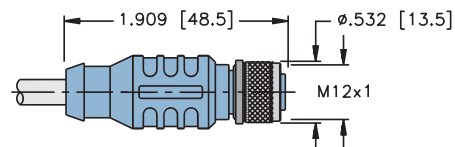
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RSC ..

Pages S30 - S32

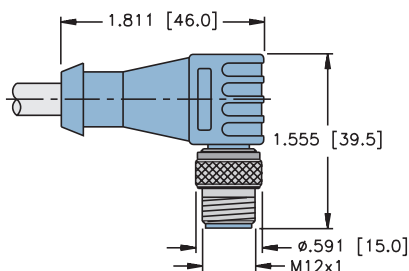
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RKC ..

Pages S30 - S32

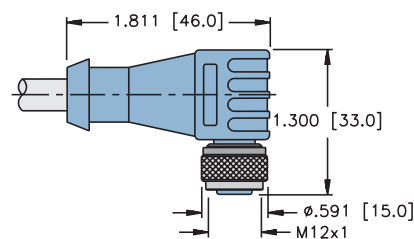
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WSC ..

Pages S30 - S32

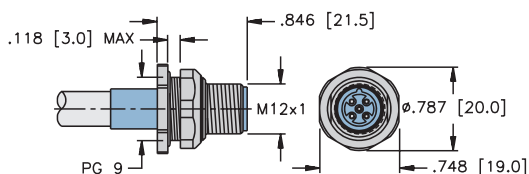
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WKC ..

Pages S30 - S32

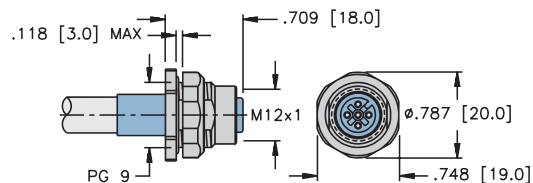
11



FSFD ..

Pages S30 - S32

12



FKFD ..

Pages S30 - S32

SDS

TURCK

Network Media Products

SDS™, eurofast® Passive Multiport Junctions

- Rugged, Fully Encapsulated Enclosure
- For Connecting I/O in Concentrated Areas
- Bus-In / Bus-Out Eliminates Need for Splitter Tee

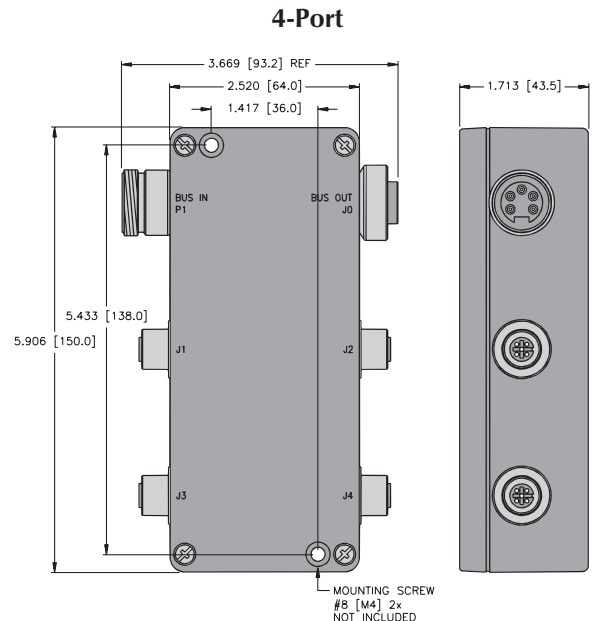
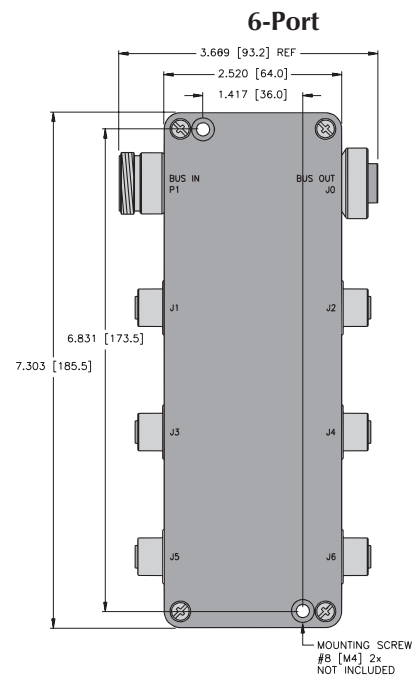
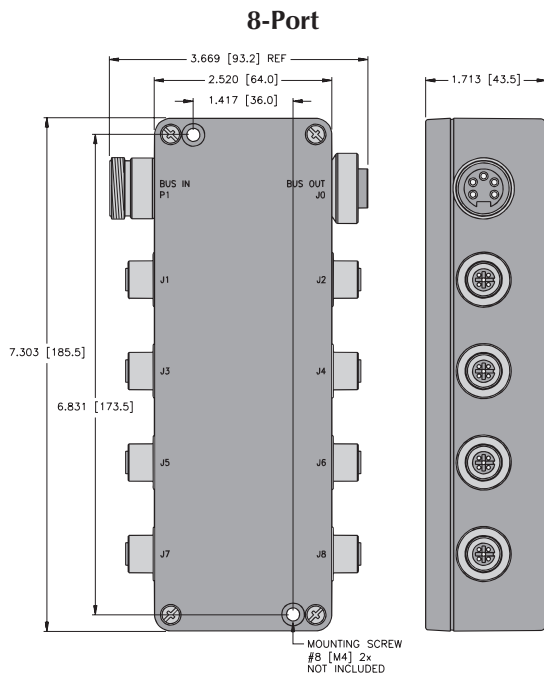


Part Number	Specs	Application	Wiring Diagrams
JBBS-53-E401		<p>4-port Junction</p> <ul style="list-style-type: none"> • Bus in/bus out straight (7/8-16UN) <i>minifast</i>® through ports • Four device ports with (M12x1) <i>eurofast</i> connectors 	
JBBS-53-E601	Die-cast aluminum enclosure.	<p>6-port Junction</p> <ul style="list-style-type: none"> • Bus in/bus out straight (7/8-16UN) <i>minifast</i> through ports • Six device ports with (M12x1) <i>eurofast</i> connectors 	
JBBS-53-E801		<p>8-port Junction</p> <ul style="list-style-type: none"> • Bus in/bus out straight (7/8-16UN) <i>minifast</i> through ports • Eight device ports with (M12x1) <i>eurofast</i> connectors 	

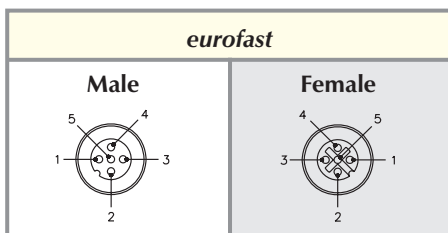
Specifications

Housing:	Anodized Aluminum
Coupling Nut:	Nickel Plated CuZn or Stainless Steel
Contact Carrier:	TPU (polyurethane or POM (Nylon))
Contacts:	Gold Plated CuZn
Protection:	NEMA 1, 3, 4, 6P and IEC IP 68
Rated Voltage:	250 V
Rated Current:	4 A
Ambient Temperature:	-40°C to +75°C

Dimensions



Pinouts



TURCK

Network Media Products

SDS™, Terminating Resistors

- Stabilize and Minimize Reflections on the Bus Line
- Required at the Beginning and End of Bus Line



Housing	Part Number	Specs	Application	Pinout
	RSM 53-TR2	Nickel Plated Brass or Stainless Steel 300 V, 9 A -40°C to +75°C	minifast ® Terminating Resistor <ul style="list-style-type: none"> • Internal resistor • Male minifast connector 	Male
	RSE 53-TR2	Nickel Plated Brass or Stainless Steel 250 V, 4 A -40°C to +75°C	eurofast ® Terminating Resistor <ul style="list-style-type: none"> • Internal resistor • Male eurofast connector 	Female

sensoplex[®]

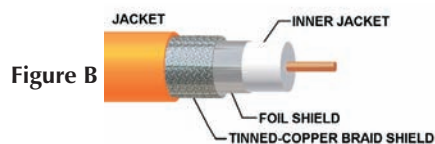
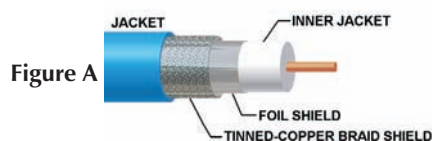
sensoplex is TURCK's own proprietary network originally introduced in 1987. *sensoplex* was designed for tough industrial environments and is highly noise resistant. It can interface to other device level networks, such as DeviceNet™, Modbus and PROFIBUS®-DP. An intrinsic safe version of *sensoplex* is available.

Bus Type	Master-to-slave
Bus Topology	Bus, straight feed-through
Transmission Speed	188 kBaud (fixed)
Transmission Medium	Coax Cable (supplies communication and power)
Transmission Signal	FSK (Frequency Shift Key) modulation; one data bit every 5.3 microseconds
Maximum Number of Nodes	32 to 64
Network Length	250 meters per branch
Address Setting	Via DIP Switch

sensoplex

sensoplex® , Cable Specifications

- Cable that Meets the Requirements of *sensoplex 2* Installations
- Cable is a 75 Ohm Impedance Coaxial Cable
- Coaxial Cable Allows both Power and Signal to be Transferred to the Field Devices



Type	Approvals	Inner Conductor		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M	Figure
		Type	Material Insulation	Material Color Nominal O.D.	Type		
Koax-75/B-Flex 80°C 30 Volts	VDE 04721/0298	Flexible	Copper Alloy PE	TPE Blue 7 mm (.276 in)	Foil/Braid	RB82701-*M 33 lbs.	A
Koax-75/B 80°C 30 Volts	VDE 04721/0298	Solid	Alloy PE	TPE Blue 7 mm (.276 in)	Foil/Braid	RB82702-*M 33 lbs.	A
Koax-75/OR-Flex 80°C 30 Volts	VDE 04721/0298	Flexible	Copper Alloy PE	TPE Orange	Foil/Braid	RB82700-*M 33 lbs.	B
Koax-75/OR 80°C 30 Volts	VDE 04721/0298	Solid	Alloy PE	TPE Orange	Foil/Braid	RB50100-*M 33 lbs.	B

* Indicates length in meters.

Standard cable lengths are 30, 75, 150, 225, and 300 meters.

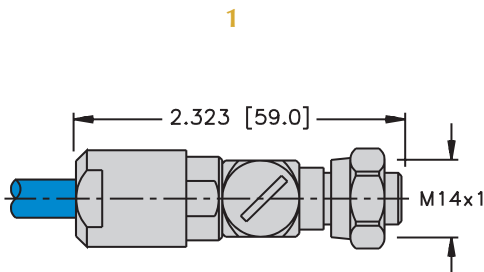
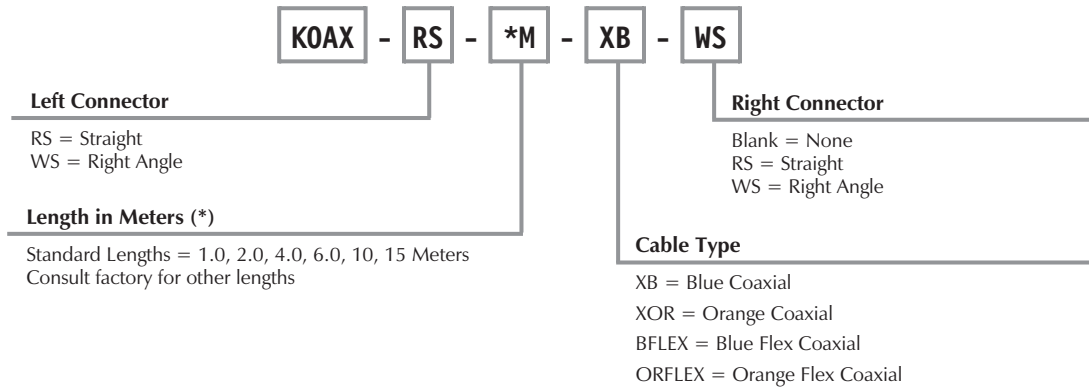
sensoplex[®], Cable and Cordset Selection Matrix

		Straight		Right Angle	
		1	RS	2	WS
Bare			KOAX-RS-*M-XX		KOAX-WS-*M-XX
Straight	1	RS	KOAX-RS-*M-XX-RS	WS	KOAX-RS-*M-XX-WS
	2	WS			KOAX-WS-*M-XX-WS

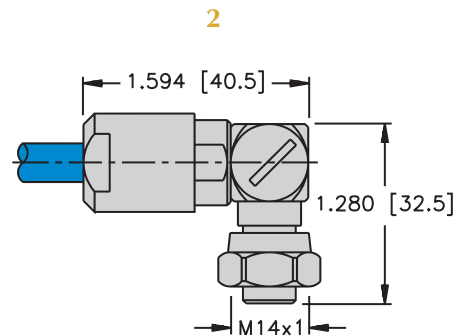
* Indicates length in meters.

Standard cable lengths are 1.0, 2.0, 4.0, 6.0, 10...15 Meters. Consult factory for other lengths.

For stainless steel coupling nuts change part number RS... to RSV, WS... to WSV.



RS ..



WS ..

Seriplex™

Seriplex is designed to be easy and simple to use where applications demand a very high speed. Response times are less than a millisecond for 128 points.

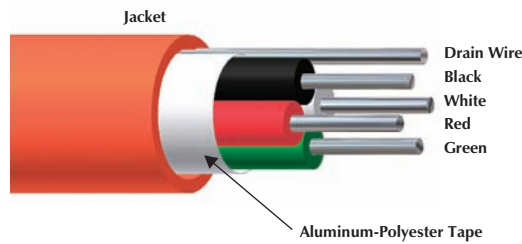
- Cable runs of 5,000+ feet
- System throughput time is 0.4 msec for 32 sensors plus 32 actuators (5 msec for 510 I/O)
- Supports more than 255 inputs and 255 outputs
- Flexibility of system without system reconfiguration
- Supports any wiring configuration - star, loop, tree, trunks, daisy chain

Seriplex media consists of a small, 4-wire shielded cable that provides both communications and power.

Bus Type	Master/slave and peer-to-peer
Bus Topology	Open - any combination of tree, loop, multi-drop, star, etc.
Maximum Number of Slaves	Non-multiplexed: 5010+ (225 input + 255 output) Multiplexed: 7.680 discrete or 480 analog or a combination
Data Packet Size	1-255 bits
Network Length	5,000 ft. or longer (without repeaters)
Bus Scan Time	Scalable - 0.72 ms for 31 sensors plus 31 actuators; 5.2 ms for 510 I/O devices
Error Detection System	Yes - CDR, digital debounce and diagnostic output
Transmission Signal	Binary, Analog, ASCII
Media	4-wire cable
Determinism	Yes - inherently deterministic

Seriplex™, Cable Specifications

- Cable that Meets the Requirements of Seriplex CBL 1622-PI
- Cable Consists of Two Wires for Clock and Data and Two for Power and Common



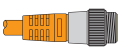



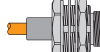
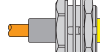





Maximum Distance = 1524 meters (5000 feet)

Type	Approvals	Data		Power		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M
		AWG Color Code	DCR (/1000 feet) Insulation	AWG Color Code	DCR (/1000 feet) Insulation	Material Color Nominal O.D.	Type Drain Wire	
582 75°C 300 Volts	NEC CL2 CM CEC CM	2/22 AWG WH/GN	18.1 Ohms PE	2/16 AWG RD/BK	4.5 Ohms PE	PVC Orange 9.4 mm (.368 in)	Foil 22 AWG	RB50789-*M 56 lbs.

* Indicates length in meters.
Standard cable lengths are 30, 75, 150, 225 and 300 meters.

Seriplex

Seriplex™, Cable and Cordset Selection Matrix

		<i>minifast</i> ®				<i>minifast</i>		
		Pin (Male)		Socket (Female)		Pin (Male)	Socket (Female)	
		1  RSM	2  WSM	3  RKM	4  WKM	5  RSFP	6  RKFP	
 Bare		RSM 582-*M	WSM 582-*M	RKM 582-*M	WKM 582-*M	RSFP 582-*M	RKFP 582-*M	
<i>minifast</i>	Pin (Male)	1  RSM	RSM RSM 582-*M	RSM WSM 582-*M	RSM RKM 582-*M	RSM WKM 582-*M	RSM RSFP 582-*M	RSM RKFP 582-*M
	2  WSM		WSM WSM 582-*M	WSM RKM 582-*M	WSM WKM 582-*M	WSM RSFP 582-*M	WSM RKFP 582-*M	
	3  RKM			RKM RKM 582-*M	RKM WKM 582-*M	RKM RSFP 582-*M	RKM RKFP 582-*M	
	4  WKM				WKM WKM 582-*M	WKM RSFP 582-*M	WKM RKFP 582-*M	

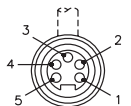
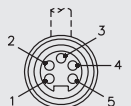
See page S44 for dimensional drawings.

* Indicates length in meters.

Refer to the Cordset Builder at www.turck.com for assistance with cordset/cable combinations.

Standard cable lengths are 1.0, 2.0, 4.0, 6.0, 10...15 Meters. Consult factory for other lengths.

For stainless steel coupling nuts change part number RSM ... to RSV, WSM ... to WSV.

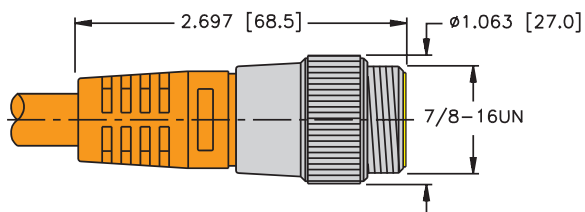
<i>minifast</i>	Pinouts	<i>minifast</i>
<p>Male</p> 	<ol style="list-style-type: none"> 1. Bare (Shield Drain Wire) 2. Red (+ Voltage) 3. Black (- Voltage) 4. Green (Clock) 5. White (Data) 	<p>Female</p> 

Seriplex™, minifast® Cordset and Receptacle Connector Dimensions

Specifications

Housing:	PUR (polyurethane)
Coupling Nut:	Nickel Plated CuZn or Stainless Steel
Contact Carrier:	TPU (polyurethane)
Contacts:	Gold Plated CuZn
Protection:	NEMA 1, 3, 4, 6P and IEC IP 68
Rated Voltage:	300 V
Rated Current:	9 A
Ambient Temperature:	-40°C to +75°C

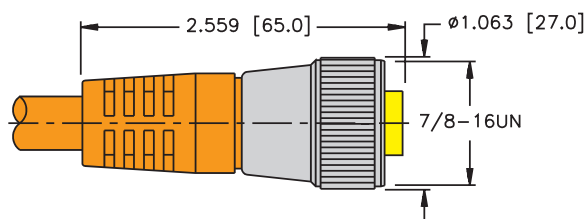
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RSM ..

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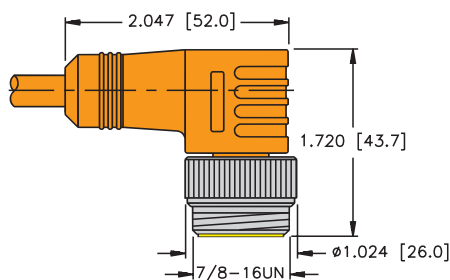
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RKM ..

Page S43

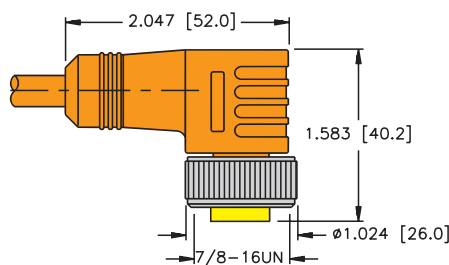
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WSM ..

Page S43

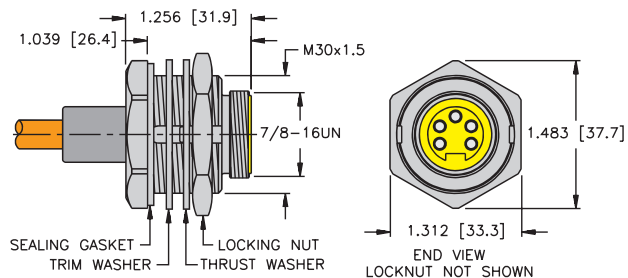
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WKM ..

Page S43

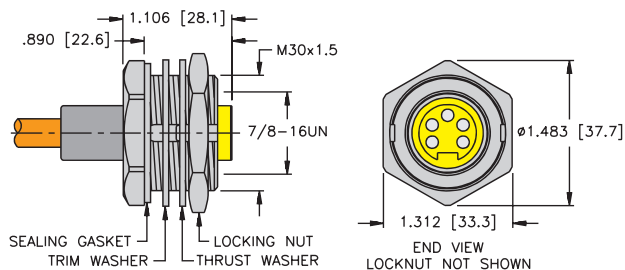
5



RSFP ..

Page S43

6



RKFP ..

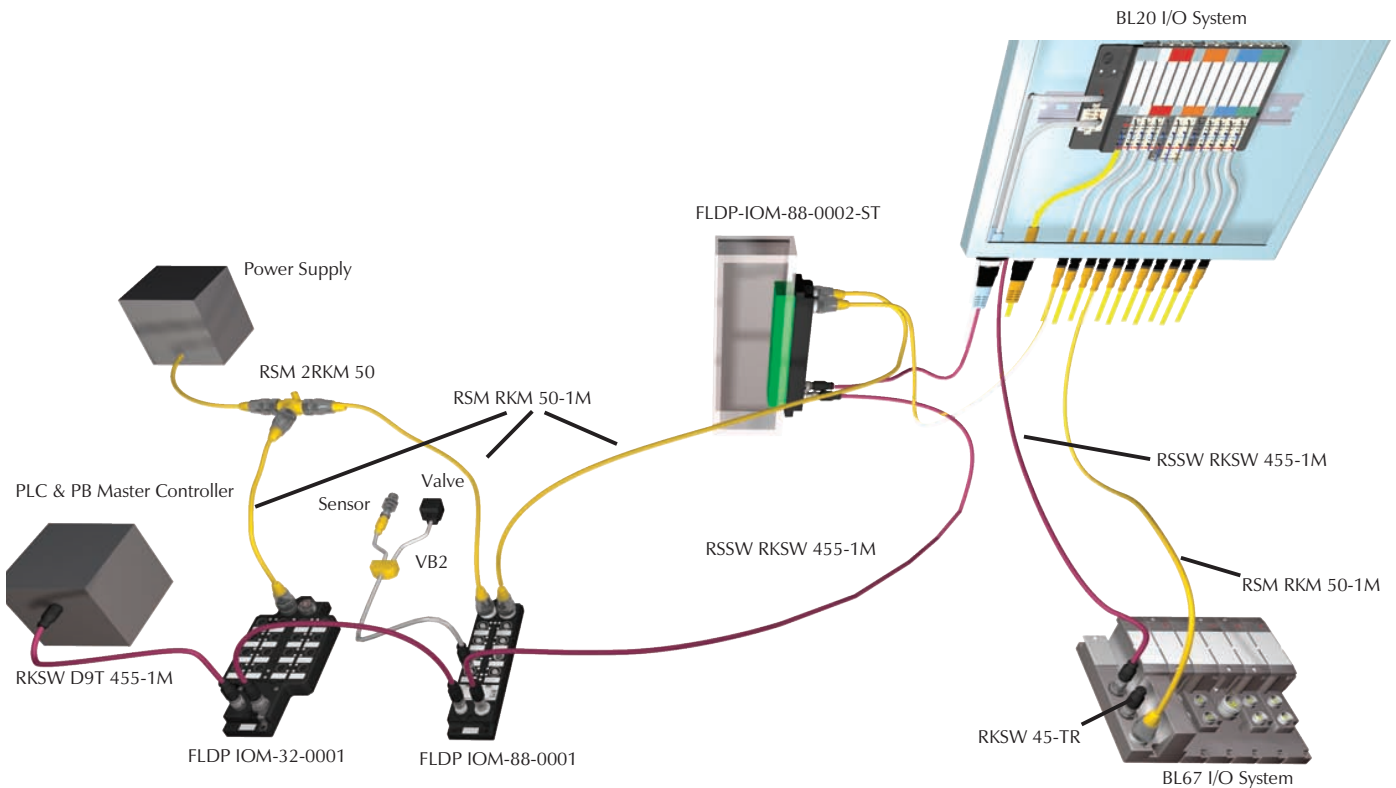
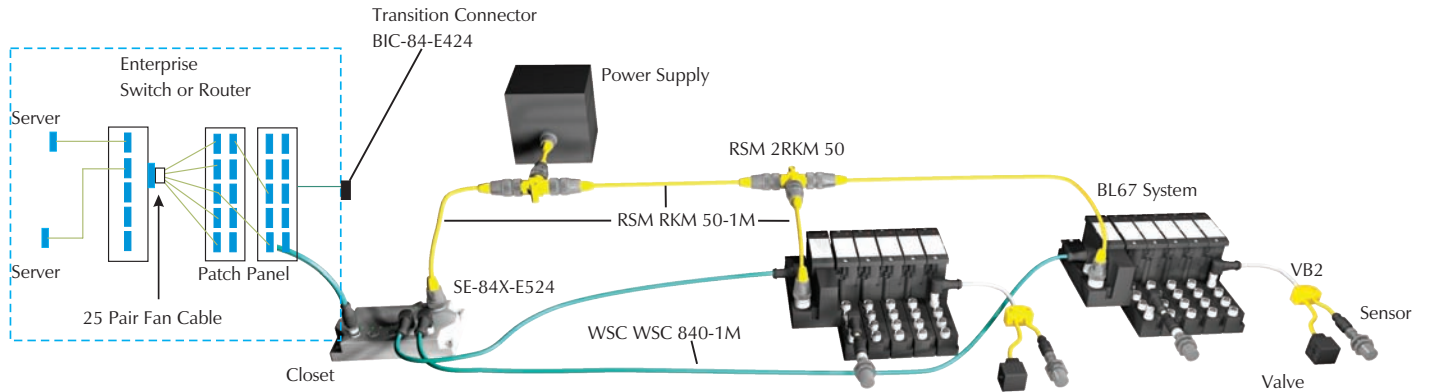
Page S43

Seriplex

Network Power Cordsets and Tees

Power Cordset and Tee Applications

This is only an example of the broad offering of power connectivity products.
See Connectivity Catalog B2005 for entire product line.



Power Cords

TURCK

Network Media Products

TURCK 5-Pin Power Cordsets, Cable Specifications

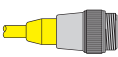

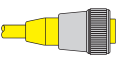

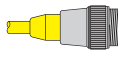
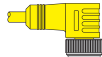
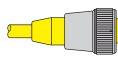
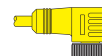
- NEMA 1, 3, 4, 6P and IEC IP 67 Protection
- 300 V, 9 A



Type	Approvals	Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M
		AWG Color Code	DCR (/1000 feet) Insulation	Material Color Nominal O.D.	Type Drain Wire	
50 AWM 2517 105°C 300 Volts	NEC AWM CEC AWM FT1	5/18 AWG BK, BU, GN/YE, BN, WH	6.9 Ohms PVC	PVC Yellow 7.2 mm (.285 in)	None	RB50549-*M 60 lbs.

* Indicates length in meters.
Standard cable lengths are 30, 100 and 200 meters. Consult factory for other lengths.

TURCK 5-Pin Power, Cordset Selection Matrix

		<i>minifast</i> [®]				
		Pin (Male)		Socket (Female)		
		1  RSM	2  WSM	3  RKM	4  WKM	
Bare		RSM 50-*M	WSM 50-*M	RKM 50-*M	WKM 50-*M	
<i>minifast</i>	Pin (Male)	1  RSM	RSM RSM 50-*M	RSM WSM 50-*M	RSM RKM 50-*M	RSM WKM 50-*M
	2  WSM		WSM WSM 50-*M	WSM RKM 50-*M	WSM WKM 50-*M	
	3  RKM			RKM RKM 50-*M	RKM WKM 50-*M	
	4  WKM				WKM WKM 50-*M	

See pages S51 for dimensional drawings.

* Indicates length in meters.

Refer to the Cordset Builder at www.turck.com for assistance with cordset/cable combinations.

Standard cable lengths are 0.3, 0.5, 1.0, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0, 6.0, 8.0, 10, 15....50 meters. Consult factory for other lengths.

For stainless steel coupling nuts change part number RSM ... to RSV, WSM ... to WSV.

Pinouts

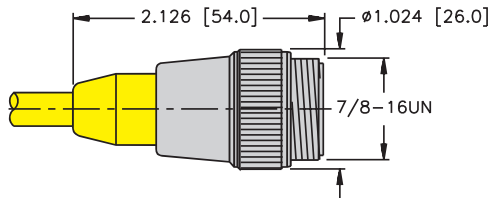
<i>minifast</i>		
Female		Male
	<ol style="list-style-type: none"> 1. Black 2. Blue 3. Green/Yellow 4. Brown 5. White 	

TURCK 5-Pin Power, Cordset Connector Dimensions

Specifications

Housing:	PUR (Polyurethane)
Coupling Nut:	Nickel Plated CuZn or Stainless Steel
Contact Carrier:	PUR (Polyurethane)
Contacts:	Gold Plated CuZn
Protection:	NEMA 1, 3, 4, 6P and IEC IP 67
Rated Voltage:	300 V
Rated Current:	9 A
Ambient Temperature:	-40° to +105°C (-40° to +221°F)

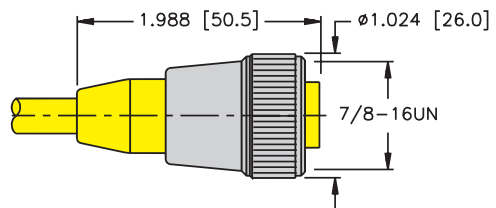
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RSM ..

Pages S50

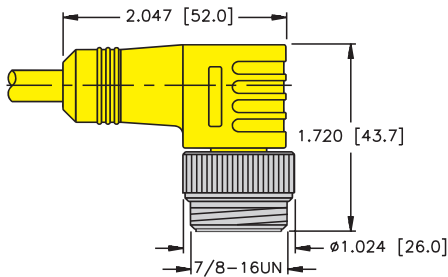
3



RKM ..

Pages S50

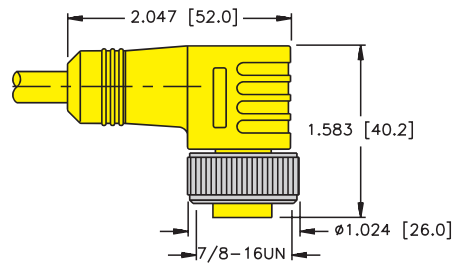
2



WSM ..

Pages S50

4



WKM ..

Pages S50

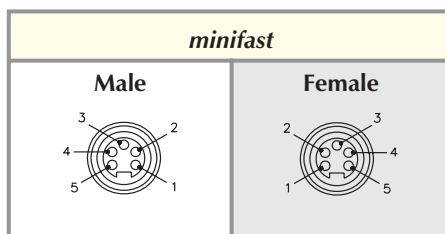
TURCK 5-Pin Power Tee

- Simplifies Wiring Installations
- Tough Molded Polyurethane Body



Housing	Part Number	Specs	Application	Wiring Diagrams
	RSM 2RKM 50	TPU (Polyurethane) 250 V, 4 A -40° to +75°C	<i>minifast</i> Power Tee <ul style="list-style-type: none"> • Data, ground, shield • Stainless steel coupling nuts 	

Pinouts



TURCK

Network Media Products

TURCK 4-Pin Power Cordsets, Cable Specifications

- NEMA 1, 3, 4, 6P and IEC IP 67 Protection
- 600 V, 9 A

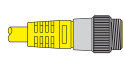

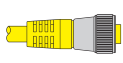
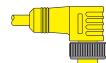
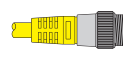
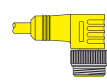
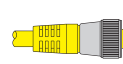
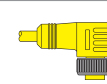


Type	Approvals	Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M
		AWG Color Code	DCR (/1000 feet) Insulation	Material Color Nominal O.D.	Type Drain Wire	
46 105°C 600 Volts	NEC STOW CEC STOW FT2	4/16 AWG BK, WH, RD, GN,	4.3 Ohms PVC	PVC Yellow 11 mm (.435 in)	None	RB50538-*M 120 lbs.

* Indicates length in meters.

Standard cable lengths are 30, 100 and 200 meters. Consult factory for other lengths.

TURCK 4-Pin Power, Cordset Selection Matrix

		<i>minifast</i> [®]			
		Pin (Male)		Socket (Female)	
		1 	2 	3 	4 
		RSM	WSM	RKM	WKM
Bare		RSM 46-*M	WSM 46-*M	RKM 46-*M	WKM 46-*M
<i>minifast</i>	Pin (Male)				
	1 	RSM RSM 46-*M	RSM WSM 46-*M	RSM RKM 46-*M	RSM WKM 46-*M
	2 		WSM WSM 46-*M	WSM RKM 46-*M	WSM WKM 46-*M
	3 			RKM RKM 46-*M	RKM WKM 46-*M
Socket (Female)					
4 				WKM WKM 46-*M	

See pages S55 for dimensional drawings.

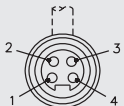
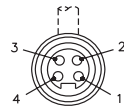
* Indicates length in meters.

Refer to the Cordset Builder at www.turck.com for assistance with cordset/cable combinations.

Standard cable lengths are 0.3, 0.5, 1.0, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0, 6.0, 8.0, 10, 15....50 meters. Consult factory for other lengths.

For stainless steel coupling nuts change part number RSM ... to RSV, WSM ... to WSV.

Pinouts

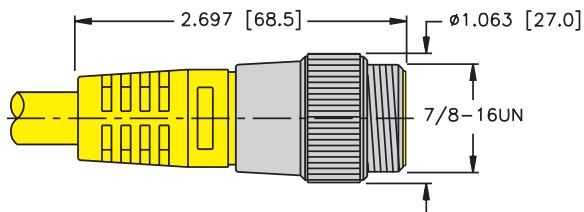
<i>minifast</i>		
Female		Male
	1. Black 2. White 3. Red 4. Green	

TURCK 4-Pin Power, Cordset Connector Dimensions

Specifications

Housing:	PUR (Polyurethane)
Coupling Nut:	Nickel Plated CuZn or Stainless Steel
Contact Carrier:	TPU (Polyurethane)
Contacts:	Gold Plated CuZn
Protection:	NEMA 1, 3, 4, 6P and IEC IP 68
Rated Voltage:	300 V
Rated Current:	9 A
Ambient Temperature:	-40° to +105°C (-40° to +221°F)

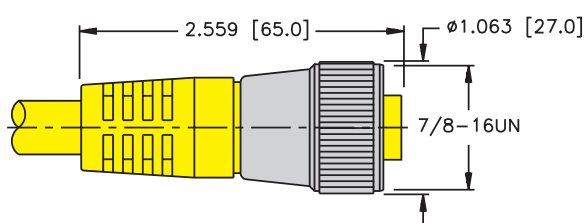
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RSV ..

Pages S54

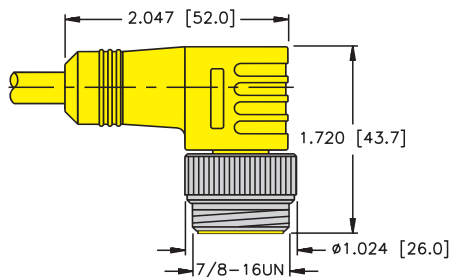
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RKV ..

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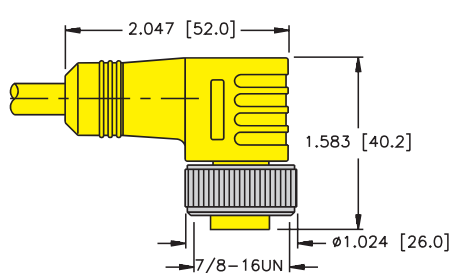
2



WSV ..

Pages S54

4



WKV ..

Pages S54

TURCK 4-Pin Power Tee

- Simplifies Wiring Installations
- Tough Molded Polyurethane Body



Housing	Part Number	Specs	Application	Wiring Diagrams
	RSM 2RKM 40	TPU (Polyurethane) 250 V, 4 A -40° to +75°C	<i>minifast</i> Power Tee <ul style="list-style-type: none"> • Data, ground, shield • Stainless steel coupling nuts 	

Pinouts

