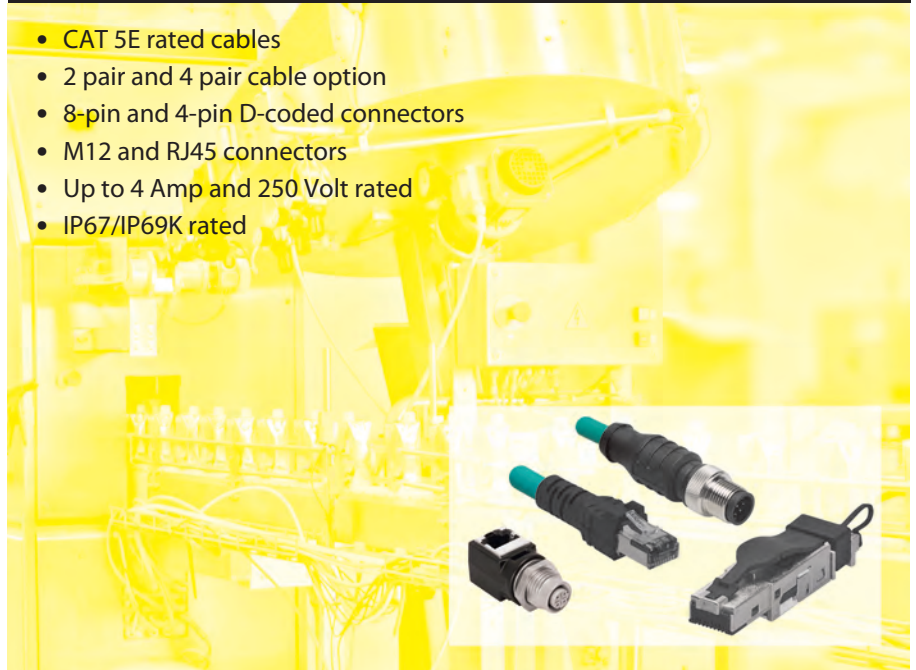

Part Number Keys	K3
Cordsets	K6
Receptacles	K13
EtherNet/IP Cordsets	K16
Field Wireables	K24

Features

- CAT 5E rated cables
- 2 pair and 4 pair cable option
- 8-pin and 4-pin D-coded connectors
- M12 and RJ45 connectors
- Up to 4 Amp and 250 Volt rated
- IP67/IP69K rated



System Description

Ethernet is the most popular protocol used to connect office computers and peripherals today. It is increasingly finding its way into other applications, and is rapidly becoming the network of choice for higher level industrial control applications. Ethernet is primarily used to connect PLCs, computers, HMI displays and other high level components.

The term "Ethernet" actually refers to the lower level communication structure. Various different versions, or implementations, of Ethernet are available, such as Ethernet/IP™ and Modbus-TCP. It is important to note that while all of these different specifications use the same physical communication method and can operate on the same cable simultaneously, they cannot necessarily communicate with each other. For example, Modbus-TCP devices cannot communicate with Ethernet/IP devices. This is because the messages and communication protocol have been defined differently for these systems, even though the physical electrical structure is the same. Think of it as two people who speak different languages; they speak by moving air with their mouths, but the rules of the languages are different.

TURCK's BL67 Ethernet gateways provide a convenient way to connect industrial I/O devices directly to the Ethernet system, expediting monitoring and troubleshooting for the overall control scheme.

Typical System Configuration

Basic Parts List

A typical Ethernet system consists of the following parts:

- A - Controller
- B - Switches
- C - Ethernet I/O modules
- D - Ethernet cable
- E - Power supply

Ethernet I/O modules act as clients on a network. A server device is needed to retrieve data from and post data to the client. This is analogous to an office network, where the client PC on a user's desk may actively connect with multiple servers to access information in different areas of the enterprise. TURCK Ethernet stations are designed to be fully compatible with established Ethernet standards for industrial use.

Cordsets

TURCK offers a complete line of molded Ethernet cordsets to facilitate network installation, resulting in a faster start-up and fewer wiring errors. Cables are available with stranded or solid-core conductors, with or without shielding.

Most TURCK Ethernet equipment uses the 4 or 8-pin (M12) **eurofast**® connector specifications. These connectors provide a tough, rugged seal, and are IP 67 rated. In some cases (mainly in the control cabinet) a traditional RJ45 Ethernet connector needs to be used. TURCK provides RJ45 cordsets, as well as a variety of devices made to convert between RJ45 and **eurofast** connectors.

TURCK cordsets for the Ethernet system are available in standard lengths. Please contact your local sales representative to order custom lengths.

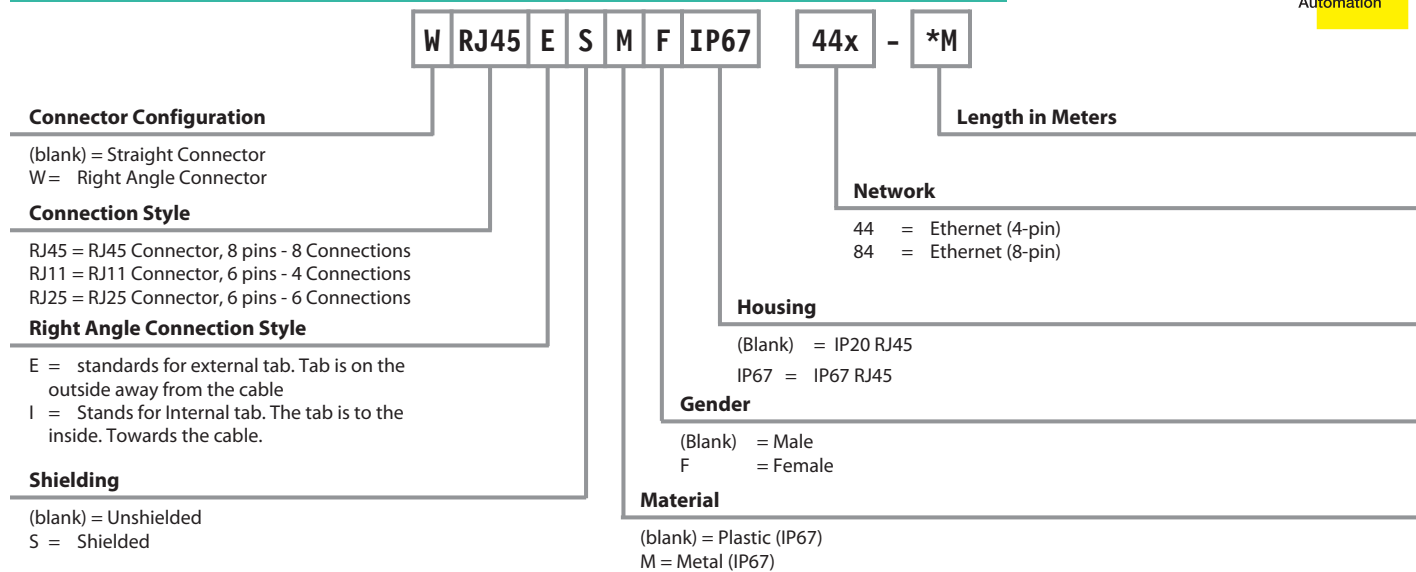
Addressing

Industrial Ethernet stations use the IP addressing scheme. An address defined by this scheme consists of four byte values usually displayed in decimal form, for example, 192.168.1.254. Different classifications of networks require different portions of this address to be constant for all devices on the network (referred to as a "subnet"). This means that the number of stations allowed on a particular network varies depending on what class of subnet is being used. If the first three bytes of the IP address are constant (which is common), then the remaining byte may be addressed between 2 and 254, resulting in 253 possible addresses.

Maximum Ratings

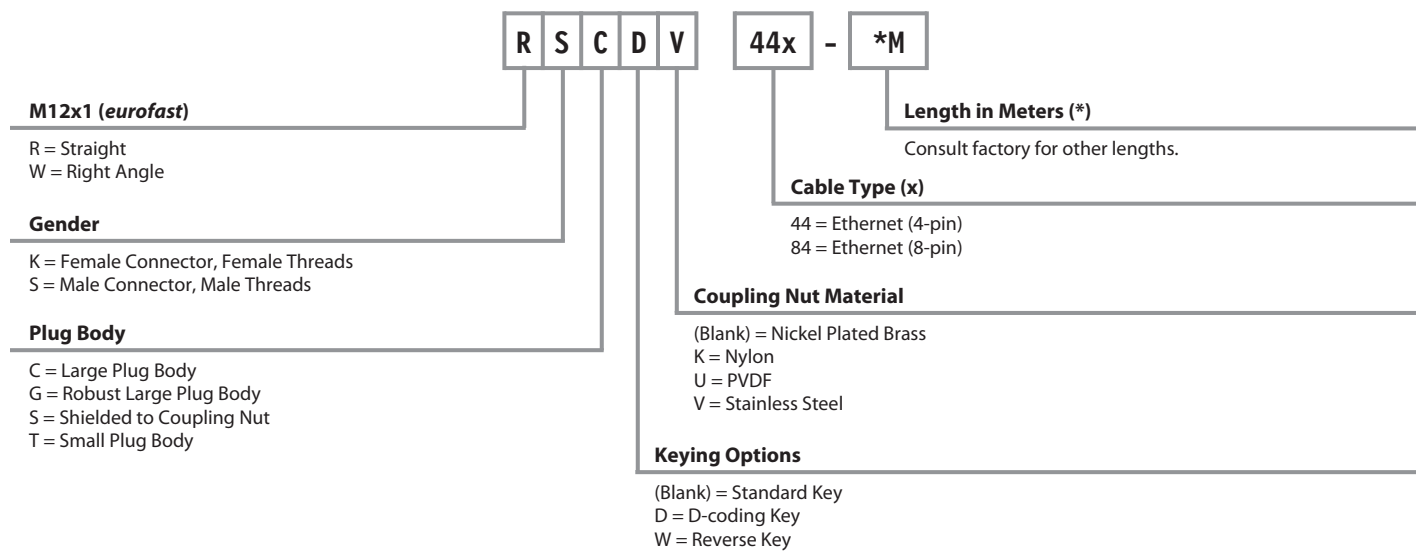
Ethernet allows different maximum cable lengths depending on the type of cable being used. Normally an Ethernet segment may be as long as 100 m, where 90 m must be solid core cable and the remaining 10 m can be stranded patch cords.

RJ Network Cordsets Part Number Key

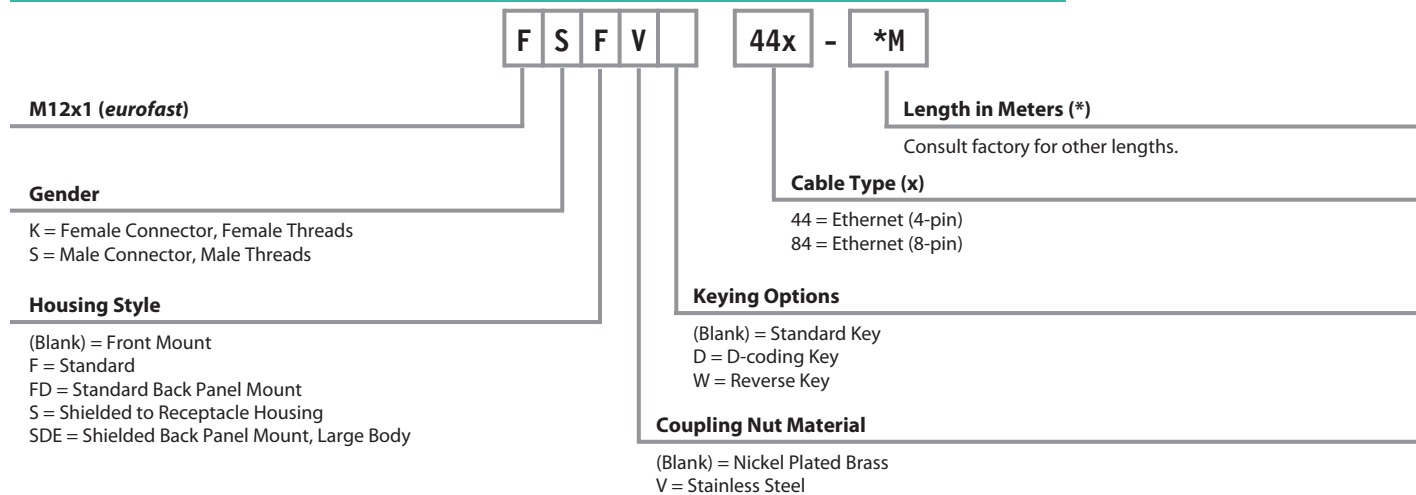


eurofast® Cordset Part Number Key

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



eurofast Receptacle Part Number Key

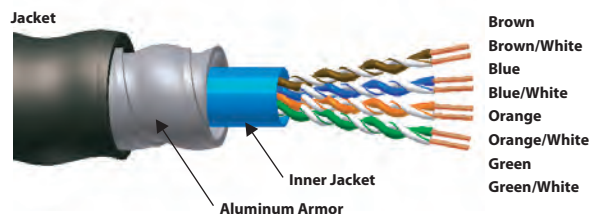
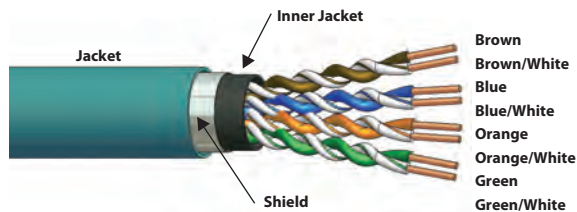


EtherNet

Notes:

Ethernet, Cable Specifications, 8-wire

- Cable that Meets the Requirements of TIA/EIA568-C Category 5e Cable for 10 and 100 Base-T Ethernet
- Cable is UL Rated for Sunlight and Oil Resistant



Maximum 100 meters of cable of which:

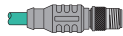
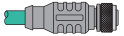






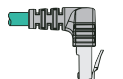


- 90 meters Horizontal Cable (SOLID - 842 or 843)
- 2 x 5 meters Patch Cables (STRANDED - 840 or 841)
- Direct Connect 30 M STRANDED

Type	Approvals	Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M
		AWG Color Code	DCR (/1000 feet) Insulation			
840 75°C 300 Volts	NEC CMR (ETL) CEC C (ETL)	8/24 AWG Stranded	28.6 Ohms PE	PVC Teal 6.6 mm (.256 in)	None	RB51460-*M 39 lbs. flexlife ⁺⁺
841 75°C 300 Volts	NEC CMR (ETL) CEC C (ETL)	8/24 AWG Stranded	28.6 Ohms PE	PVC Teal 7.5 mm (.286 in)	Foil/Braid	RB51461-*M 50 lbs. flexlife ⁺⁺
842 75°C 100 Volts	NEC CMR (ETL) CEC C (ETL)	8/24 AWG Solid	28.6 Ohms PE	PVC Teal 6.2 mm (.231 in)	None	RB51462-*M 39 lbs.
843 75°C 300 Volts	NEC CMR (ETL) CEC C (ETL)	8/24 AWG Solid	28.6 Ohms PE	PVC Teal 7.3 mm (.286 in)	Foil/Braid	RB51463-*M 50 lbs.
845 50°C 125 Volts	TSB-36 ISO/IEC 11801	8/26 AWG Stranded	37.3 Ohms PE	TPU Teal 6.3 mm (.248 in)	Foil/Braid	RB51305-*M 54 lbs. flexlife ⁺⁺⁺ Halogen Free
849A AWM 444 80°C 300 Volts	NEC CMG CEC HL CMG	8/24 AWG Solid	28.6 Ohms PO	PVC Black 14.1 mm (.530 in)	Foil/Braid Armor	RB51100-*M 159 lbs. armorfast [*]
8460 80°C 300 Volts	RoHS	8/24 AWG Standard	24.0 Ohms PE	TPE Teal 7.9 mm (.310 in)	None	RB51772-*M flexlife ⁺⁺⁺

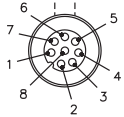
* Indicates length in meters.
Standard spool lengths are 30, 75, 100, 150, 200, 225, 300 meters. Consult factory for other lengths.
++ 1 million cycles at 1.5" bend radius.
+++ 2 million cycles at 2.5" bend radius.

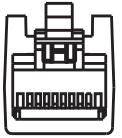
TURCK EtherNet™ Physical Media Connectivity

Ethernet, (M12x1) eurofast®, RJ45, Cable/Cordset Selection Matrix - Unshielded

		eurofast				
		Pin (Male)	Socket (Female)	Pin (Male)	Socket (Female)	
		1  RSC	2  RKC	3  FSFD	4  FKFD	
 Bare		RSC 84x-*M	RKC 84x-*M	FSFD 84x-*M	FKFD 84x-*M	
eurofast	Pin (Male)	1  RSC	RSC RSC 84x-*M	RSC RKC 84x-*M	RSC FSFD 84x-*M	RSC FKFD 84x-*M
	Socket (Female)	2  RKC		RKC RKC 84x-*M	RKC FSFD 84x-*M	RKC FKFD 84x-*M
	RJ45 Plug	7  RJ45			RJ45 FSFD 84x-*M	RJ45 FKFD 84x-*M
	WRJ45 Plug	8  WRJ45E			WRJ45E FSFD 84x-*M	WRJ45E FKFD 84x-*M
	RJ45M IP67 Plug	9  RJ45MIP67			RJ45MIP67 FSFD 84x-*M	RJ45MIP67 FKFD 84x-*M
	RJ45 IP67 Plug	10  RJ45IP67			RJ45IP67 FSFD 84x-*M	RJ45IP67 FKFD 84x-*M

See pages K10 - K11 for dimensional drawings.

eurofast	Pinouts	eurofast
Male 	1. White/Blue 2. White/Brown 3. Brown 4. Orange 5. White/Green 6. White/Orange 7. Blue 8. Green	Female 

Standard Pinout	RJ45 Plug	(CR) Pinout
1. White/Orange 2. Orange 3. White/Green 4. Blue 5. White/Blue 6. Green 7. White/Brown 8. Brown	Male  12345678	1. White/Green 2. Green 3. White/Orange 4. Blue 5. White/Blue 6. Orange 7. White/Brown 8. Brown

Ethernet, (M12x1) eurofast®, RJ45, Cable/Cordset Selection Matrix - Unshielded






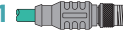




		eurofast			
		RJ45 Plug	WRJ45 Plug	RJ45MIP67 Plug	RJ45IP67 Plug
Continued		7 RJ45	8 WRJ45E	9 RJ45MIP67	10 RJ45IP67
Bare		RJ45 84x-*M	WRJ45E 84x-*M	RJ45MIP67 84x	RJ45IP67 84x
eurofast	Pin (Male)	1 RSC RJ45 84x-*M	RSC WRJ45E 84x-*M	RSC RJ45MIP67 84x	RSC RJ45IP67 84x
	Socket (Female)	2 RKC RJ45 84x-*M	RKC WRJ45E 84x-*M	RKC RJ45MIP67 84x	RKC RJ45IP67 84x
	RJ45 Plug	7 RJ45 RJ45 84x-*M		RJ45 RJ45MIP67 84x	RJ45 RJ45IP67 84x
	WRJ45 Plug	8 WRJ45E RJ45 84x-*M	WRJ45E WRJ45E 84x-*M	WRJ45 RJ45MIP67 84x	WRJ45E RJ45IP67 84x
	RJ45MIP67 Plug	9 RJ45MIP67		RJ45MIP67 RJ45MIP67 84x-*M	RJ45MIP67 RJ45IP67 84x
	RJ45IP67 Plug	10 RJ45IP67		RJ45IP67 RJ45MIP67 84x-*M	RJ45IP67 RJ45IP67 84x

See pages K10 - K11 for dimensional drawings.

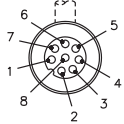
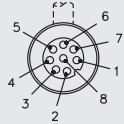
- * Indicates length in meters.
- x Indicates cable type.
Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.
For stainless steel coupling nuts change part number RSC ... to RSCV, FKFD ... to FKFDV.
For cross-over cable, add "CR" to part number RJ45 RJ45 CR 84x-*M.
For right angle RJ45, select WRJ45I for internal tab or WRJ45E for external tab.

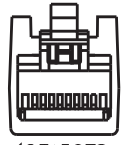
TURCK EtherNet™ Physical Media Connectivity

Ethernet, (M12x1) eurofast®, RJ45, Cable/Cordset Selection Matrix - Shielded

		eurofast			
		Pin (Male)	Socket (Female)	Pin (Male)	Socket (Female)
		1  RSS	2  RKS	5  FSSDE	6  FKSDE
 Bare		RSS 84x-*M	RKS 84x-*M	FSSDE 84x-*M	FKSDE 84x-*M
eurofast	Pin (Male) 1  RSS	RSS RSS 84x-*M	RSS RKS 84x-*M	RSS FSSDE 84x-*M	RSS FKSDE 84x-*M
	Socket (Female) 2  RKS		RKS RKS 84x-*M	RKSS FSSDE 84x-*M	RKS FKSDE 84x-*M
	RJ45 Plug 7  RJ45S			RJ45S FSSDE 84x-*M	RJ45S FKSDE 84x-*M
	WRJ45 Plug 8  WRJ45ES			WRJ45 FSSDE 84x-*M	WRJ45 FKSDE 84x-*M
	RJ45M IP67 Plug 9  RJ45SMIP67			RJ45SMIP67 FSSDE 84x-*M	RJ45SMIP67 FKSDE 84x-*M

See pages K10 - K11 for dimensional drawings.

eurofast	Pinouts	eurofast
Male 	1. White/Blue 2. White/Brown 3. Brown 4. Orange 5. White/Green 6. White/Orange 7. Blue 8. Green	Female 

Standard Pinout	RJ45 Plug	(CR) Pinout
1. White/Orange 2. Orange 3. White/Green 4. Blue 5. White/Blue 6. Green 7. White/Brown 8. Brown	Male  12345678	1. White/Green 2. Green 3. White/Orange 4. Blue 5. White/Blue 6. Orange 7. White/Brown 8. Brown

Ethernet, (M12x1) eurofast®, RJ45, Cable/Cordset Selection Matrix - Shielded

		RJ45 Plug	WRJ45 Plug	RJ45M IP67 Plug
		7 RJ45S	8 WRJ45ES	9 RJ45SMIP67
Bare		RJ45S 84x-*M	WRJ45ES 84x-*M	RJ45SMIP67 84x
eurofast	Pin (Male)	1 RSS RJ45S 84x-*M	RSS WRJ45ES 84x-*M	RJ45SMIP67 84x
	Socket (Female)	2 RKS RJ45S 84x-*M	RKS WRJ45ES 84x-*M	RJ45SMIP67 84x
	RJ45 Plug	7 RJ45S RJ45S 84x-*M		RJ45SS RJ45SMIP67 84x
	WRJ45 Plug	8 WRJ45ES RJ45S 84x-*M	WRJ45ES WRJ45ES 84x-*M	WRJ45ES RJ45SMIP67 84x
	RJ45M IP67 Plug	9 RJ45SMIP67		RJ45SMIP67 RJ45SMIP67 84x

See pages K10 - K11 for dimensional drawings.

* Indicates length in meters.

x Indicates cable type.

Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

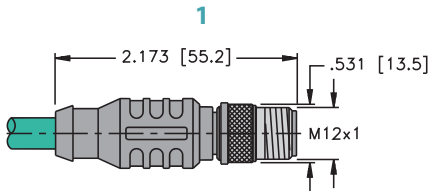
For stainless steel coupling nuts change part number RSS ... to RSSV, FKSDE ... to FKSDEV.

For cross-over cable, add "CR" to part number RJ45S RJ45S CR 84x-*M.

For right angle RJ45, select WRJ45I for internal tab or WRJ45E for external tab.

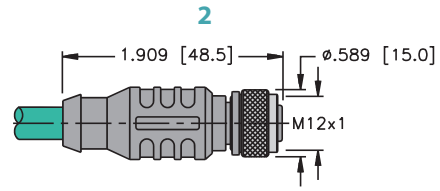
Specifications

Overmold:	TPU	Rated Voltage:	60 V
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	Rated Current:	2 A
Contact Carrier:	TPU or POM (Nylon)	Ambient Temperature:	-40° to +75°C (32° to +167°F)
Contacts:	Gold Plated CuZn		
Protection:	NEMA 1, 3, 4, 6P and IEC IP 68		



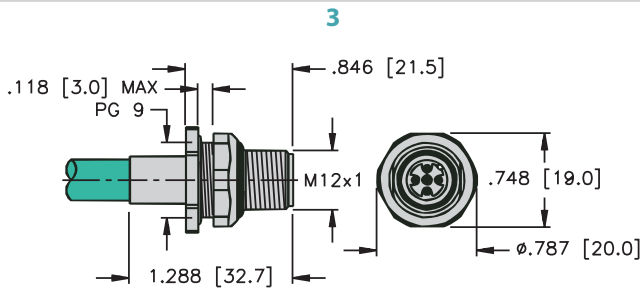
RSC/RSS ..

Pages K6



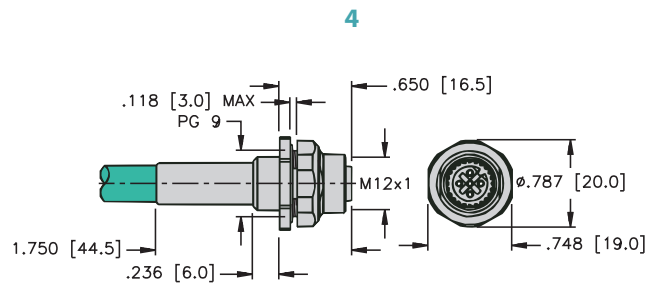
RKC/RKS ..

Pages K6



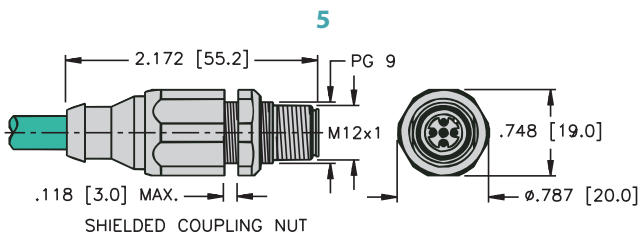
FSFD ..

Pages K6



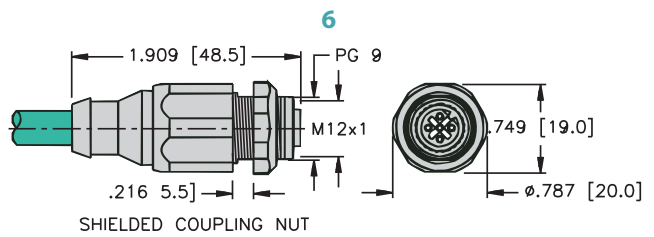
FKFD ..

Pages K6



FSSDE ..

Pages K8



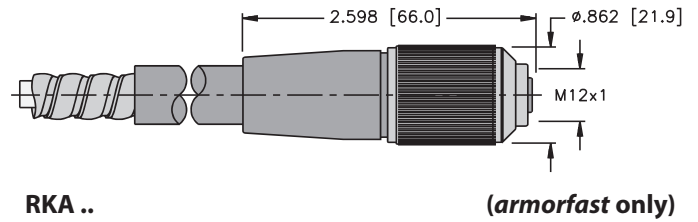
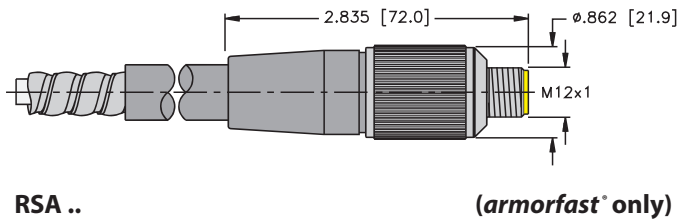
FKSDE ..

Pages K8

Specifications

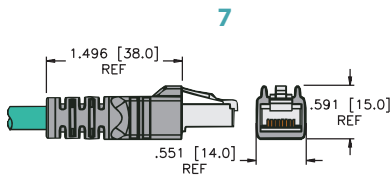
Overmold: TPU
Coupling Nut: Nickel Plated CuZn or Stainless Steel
Contact Carrier: TPU or POM (Nylon)
Contacts: Gold Plated CuZn
Protection: NEMA 1, 3, 4, 6P and IEC IP 68

Rated Voltage: 60 V
Rated Current: 2 A
Ambient Temperature: -40° to +75°C (-22° to +167°F)

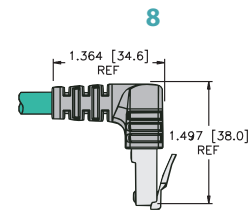


Specifications

Overmold: TPU
Plug Material: Polycarbonate
Protection: NEMA 1 and IEC IP 20
Rated Voltage: 42 V
Rated Current: 1.5 A

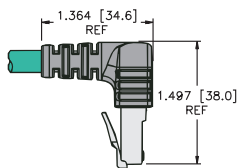


RJ45/RJ45S .. Page K6

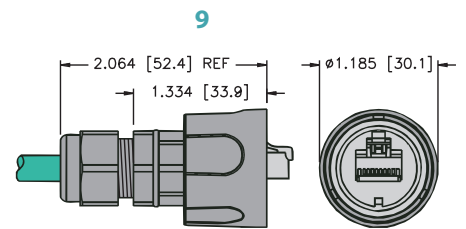


WRJ45E/WRJ45ES ..External tab Page K6

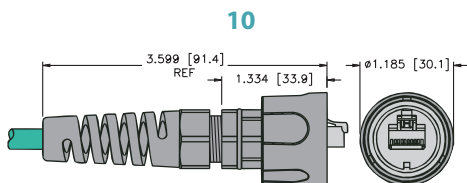
8 - Internal tab version



WRJ45I/WRJ45IS .. Internal tab version Page K6



RJ45MIP67/RJ45SMIP67.. Page K6



RJ45IP67 .. Page K6

TURCK EtherNet™ Physical Media Connectivity

Ethernet, Economy RJ45 to RJ45 Cordsets

- For "In the Panel" Applications Where Industrial Cordsets are not Needed
- Available in Yellow, 3 FT and 7 FT Lengths Only



Housing	Part Number	Application	Pinout
	RJ45 RJ45 840-3FT/ECON	<ul style="list-style-type: none"> • Ethernet patch cordsets for panel connections • Economy, non industrial 	<p>Male</p> <p>12345678</p>
	RJ45 RJ45 840-7FT/ECON		

RJ45 Plug	Pinout
<p>Male</p> <p>12345678</p>	<ol style="list-style-type: none"> 1. White/Orange 2. Orange 3. White/Green 4. Blue 5. White/Blue 6. Green 7. White/Brown 8. Brown

Ethernet, Circuit Board Connectors and OEM Receptacles, 8-wire

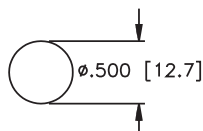
- Provides (M12x1) *eurofast*® 8-Pin Connection to Field Devices



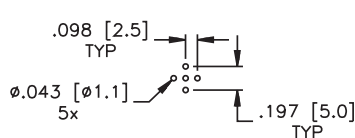
Housing	Female Part Number	Male Part Number	Features	Pinouts
<p>FK 84 PCB KIT</p> <p>FS 84 PCB KIT</p>	FK 84-PCB KIT	FS 84-PCB KIT	Nickel plated CuZn or stainless steel, 250 V, 4 A, -40° to +75°C, eurofast with mounting kit	<p>Female</p> <ol style="list-style-type: none"> 1. WH/BU 2. WH/BN 3. BN 4. OG 5. WH/GN 6. WH/OG 7. BU 8. GN
<p>FK 84 PCB</p> <p>FS 84 PCB</p>	FK 84-PCB	FS 84-PCB		

Standard housing material is nickel plated brass "FSV .."; "FKV .." indicates 316 stainless steel.

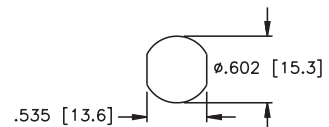
Panel Cutout
FK ... FS



Board Layout (reference only)
FK ... FS



Panel Cutout
FKFD ... FSFD



TURCK EtherNet™ Physical Media Connectivity

Ethernet, Circuit Board Connectors and OEM Receptacles, 8-wire

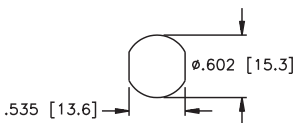
- Provides (M12x1) *eurofast*® 8-Pin Connection to Field Devices



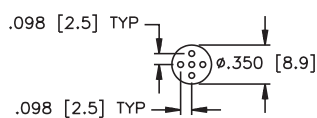
Housing	Female Part Number	Male Part Number	Features	Pinouts
<p>FKFD..</p>	FKFD 84-PCB	FSFD 84-PCB	Nickel plated CuZn or stainless steel 250 V, 4 A, -40° to +75°C, <i>eurofast</i> PCB pins	<p>Male</p>
<p>FSFD..</p>				
<p>FKFDL</p>	FKFDL 84	FSFDL 84	Nickel plated CuZn or stainless steel 250 V, 4 A, -40° to +75°C, male <i>eurofast</i> solder cups	<ol style="list-style-type: none"> 1. WH/BU 2. WH/BN 3. BN 4. OG 5. WH/GN 6. WH/OG 7. BU 8. GN
<p>FSFDL..</p>				<p>Female</p>
<p>WFS..</p>		WFS 84-PCB	Nickel plated CuZn or stainless steel 250 V, 4 A, -40° to +75°C, male <i>eurofast</i> right angle PCB pins	

Standard housing material is nickel plated brass "FKFD.."; "FKFDV.." indicates 316 stainless steel.

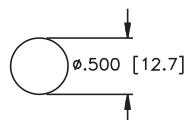
Panel Cutout
FKFD ... FSFD



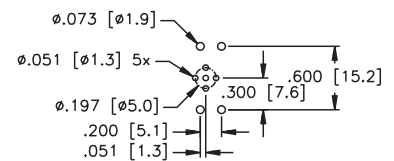
Board Layout (reference only)
FKFD ... FSFD



Panel Cutout
WFS

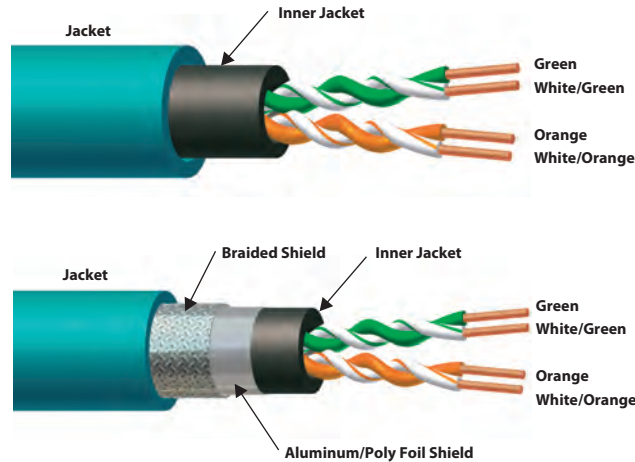


Board Layout (reference only)
WFS



Ethernet, Cable Specifications, 4-wire

- Cable that Meets the Requirements of TIA/EIA568-C Category 5e Performance Requirements Cable for 10 and 100 Base-T Ethernet
- Compliant with Ethernet/IP Standards
- Cable is UL Rated for Sunlight and Oil Resistant



Maximum 100 meters of cable of which:

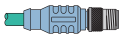
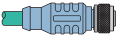
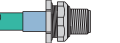

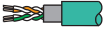

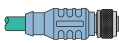

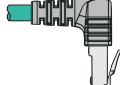


- 90 meters Horizontal Cable (SOLID - 442 or 443)
- 2 x 5 meters Patch Cables (STRANDED - 440 or 441)

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	
440 75°C 300 Volts	NEC CMR CEC C(UL) CMR	4/24 AWG Stranded	28.6 Ohms PO	PVC Teal 6.9 mm (.270 in)	None	RB51210-*M 29 lbs.
441 75°C 300 Volts	NEC CMR CEC C(UL) CMR	4/24 AWG Stranded	28.6 Ohms PO	PVC Teal 7.2 mm (.285 in)	Foil/Braid	RB51211-*M 44 lbs.
442 75°C 300 Volts	NEC CMR CEC C(UL) CMR	4/24 AWG Solid	28.6 Ohms PO	PVC Teal 6.4 mm (.250 in)	None	RB51212-*M 27 lbs.
443 75°C 300 Volts	NEC CMR CEC C(UL) CMR	4/24 AWG Solid	28.6 Ohms PO	PVC Teal 7.1 mm (.280 in)	Foil/Braid	RB51213-*M 49 lbs.
4410 50°C 124 Volts	TSB-36 ISO/IEC 11801	4/26 AWG Stranded	37.3 Ohms PE	TPU Teal 6.1 mm (.240 in)	Foil/Braid	RB51306-*M 48 lbs. flexlife † Halogen Free
4460 80°C 124 Volts	RoHS	4/24 AWG Stranded	24.0 Ohms PE	TPE Teal 6.7 mm (.265 in)	None	RB51721 26 lbs. flexlife ††

* Indicates length in meters.
Standard spool lengths are 30, 75, 100, 150, 200, 225, 300 meters. Consult factory for other lengths.
† 2.5 million flex motions at 12.5x cable diameter bend radius.
†† 2 million cycles @ 1.5 in minimum bend radius.

TURCK EtherNet/IP™ Physical Media Connectivity

Ethernet, (M12x1) *eurofast*®, RJ45 Cables and Extensions - Unshielded D-coded

		<i>eurofast</i>			
		Pin (Male)	Socket (Female)	Pin (Male)	Socket (Female)
		11  RSCD	12  RKCD	13  FSFDD	14  FKFDD
 Bare		RSCD 44x-*M	RKCD 44x-*M	FSFDD 44x-*M	FKFDD 44x-*M
<i>eurofast</i>	Pin (Male)	11  RSCD	RSCD RKCD 44x-*M	RSCD FSFDD 44x-*M	RSCD FKFDD 44x-*M
	Socket (Female)	12  RKCD	RKCD RKCD 44x-*M	RKCD FSFDD 44x-*M	RKCD FKFDD 44x-*M
	RJ45 Plug	17  RJ45		RJ45 FSFDD 44x-*M	RJ45 FKFDD 44x-*M
	WRJ45 Plug	18  WRJ45E		WRJ45E FSFDD 44x-*M	WRJ45E FKFDD 44x-*M
	RJ45M IP67 Plug	19  RJ45MIP67		RJ45MIP67 FSFDD 44x-*M	RJ45MIP67 FKFDD 44x-*M
	RJ45 IP67 Plug	20  RJ45IP67		RJ45IP67 FSFDD 44x-*M	RJ45IP67 FKFDD 44x-*M

See pages K20 - K21 for dimensional drawings.

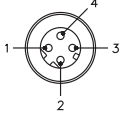
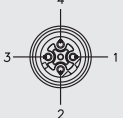
* Indicates length in meters.

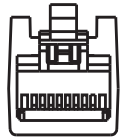
x Indicates cable type.

Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

For stainless steel coupling nuts change part number RSCD ... RSCDV, FSFD ... FSFDV.

For right angle RJ45, select WRJ45I for internal tab or WRJ45E for external tab.

<i>eurofast</i>	Pinouts	<i>eurofast</i>
Male 	1. White/Orange (+ tx) 2. White/Blue (+rx) 3. Orange (-tx) 4. Blue (-rx)	Female 

RJ45 Pinout	RJ45 Plug	RJ45 (CR) Pinout
1. White/Orange 2. Orange 3. White/Blue 4. N/C 5. N/C 6. Blue 7. N/C 8. N/C	Male  12345678	1. White/Blue 2. Blue 3. White/Orange 4. N/C 5. N/C 6. Orange 7. N/C 8. N/C

Ethernet, (M12x1) eurofast®, RJ45, Cables and Extensions - Unshielded D-coded

		eurofast				
		Pin (Male)	Socket (Female)	Pin (Male)	Socket (Female)	
		17 RJ45	18 WRJ45E	19 RJ45MIP67	20 RJ45IP67	
Bare		RJ45 44x-*M	WRJ45E 44x-*M	RJ45MIP67 44x-*M	RJ45IP67 44x-*M	
eurofast	Pin (Male)	11 RSCD	RSCD WRJ45E 44x-*M	RSCD RJ45MIP67 44x-*M	RSCD RJ45IP67 44x-*M	
	Socket (Female)	12 RKCD	RKCD WRJ45E 44x-*M	RKCD RJ45MIP67 44x-*M	RKCD RJ45IP67 44x-*M	
	RJ45 Plug	17 RJ45	RJ45 RJ45 44x-*M	RJ45 RJ45MIP67 44x-*M	RJ45 RJ45IP67 44x-*M	
	WRJ45 Plug	18 WRJ45E	WRJ45E RJ45 44x-*M	WRJ45E WRJ45E 44x-*M	WRJ45E RJ45MIP67 44x-*M	WRJ45E RJ45IP67 44x-*M
	RJ45M IP67 Plug	19 RJ45MIP67		RJ45MIP67 RJ45MIP67 44x-*M		
	RJ45 IP67 Plug	20 RJ45IP67		RJ45IP67 RJ45MIP67 44x-*M	RJ45IP67 RJ45IP67 44x-*M	





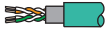
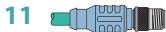




See pages K20 - K21 for dimensional drawings.

* Indicates length in meters.

x Indicates cable type.

Standard cable lengths are 1, 2, 4, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.

For right angle RJ45, select WRJ45I for internal tab or WRJ45E for external tab.

		eurofast				
		Pin (Male)	Socket (Female)	Pin (Male)	Socket (Female)	
		11  RSSD	12  RKSD	15  FSSDED	16  FKSDED	
 Bare		RSSD 44x-*M	RKSD 44x-*M	FSSDED 44x-*M	FKSDED 44x-*M	
eurofast	Pin (Male)	11  RSSD	RSSD RSSD 44x-*M	RSSD RKSD 44x-*M	RSSD FSSDED 44x-*M	RSSD FKSDED 44x-*M
	Socket (Female)	12  RKSD		RKSD RKSD 44x-*M	RKSD FSSDED 44x-*M	RKSD FKSDED 44x-*M
	RJ45 Plug	17  RJ45S			RJ45S FSSDED 44x-*M	RJ45S FKSDED 44x-*M
	WRJ45 Plug	18  WRJ45ES			WRJ45ES FSSDED 44x-*M	WRJ45ES FKSDED 44x-*M
	RJ45M IP67 Plug	19  RJ45SMIP67			RJ45SMIP67 FSD 84x-*M	RJ45SMIP67 FKFD 84x-*M

See pages K20 - K21 for dimensional drawings.

* Indicates length in meters.

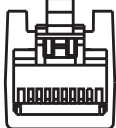
x Indicates cable type.

Standard cable lengths are 1, 2, 4, 5, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.




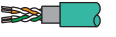



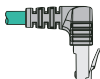
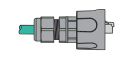
For stainless steel coupling nuts change part number RSSD ... RSSD_V, FSSDED ... FSSDED_V.

For right angle RJ45, select WRJ45I for internal tab or WRJ45E for external tab.

eurofast	Pinouts	eurofast
Male	<ol style="list-style-type: none"> White/Orange (+tx) White/Green (+rx) Orange (-tx) Green (-rx) 	Female

RJ45 Pinout	RJ45 Plug	RJ45 (CR) Pinout
<ol style="list-style-type: none"> White/Orange Orange White/Green N/C N/C Green N/C N/C 	Male  12345678	<ol style="list-style-type: none"> White/Green Green White/Orange N/C N/C Orange N/C N/C

Ethernet, (M12x1) eurofast®, RJ45, Cables and Extensions - Shielded Cable D-coded

		eurofast		
		RJ45 Plug	WRJ45 Plug	RJ45 Plug
		17  RJ45S	18  WRJ45ES	19  RJ45SMIP67
 Bare		RJ45S 44x-*M	WRJ45ES 44x-*M	RJ45SMIP67 44x-*M
eurofast	Pin (Male) 11  RSSD	RSSD RJ45S 44x-*M	RSSD WRJ45ES 44x-*M	RSSD RJ45SMIP67 44x-*M
	Socket (Female) 12  RKSD	RKSD RJ45S 44x-*M	RKSD WRJ45ES 44x-*M	RKSD RJ45SMIP67 44x-*M
	RJ45 Plug 17  RJ45S	RJ45S RJ45S 44x-*M		RJ45S RJ45SMIP67 44x-*M
	WRJ45 Plug 18  WRJ45ES	WRJ45ES RJ45S 44x-*M	WRJ45ES WRJ45ES 44x-*M	WRJ45ES RJ45SMIP67 44x-*M
	RJ45M IP67 Plug 19  RJ45SMIP67			RJ45SMIP67 RJ45SMIP67 44x-*M

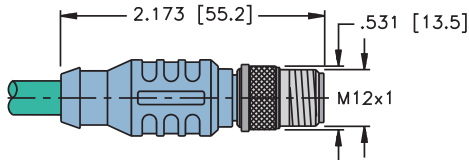
See pages K20 - K21 for dimensional drawings.

- * Indicates length in meters.
- x Indicates cable type.
 Standard cable lengths are 1, 2, 4, 5, 6, 8, 10, 15, and in +5 meter increments from there. Consult factory for other lengths.
 For stainless steel coupling nuts change part number RSSD ... RSSDV, FSSDED ... FSSDEDV.
 For right angle RJ45, select WRJ45I for internal tab or WRJ45E for external tab.

Specifications

Overmold:	TPU
Coupling Nut:	Nickel Plated CuZn or Stainless Steel
Contact Carrier:	TPU 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 (32° to +167°F)

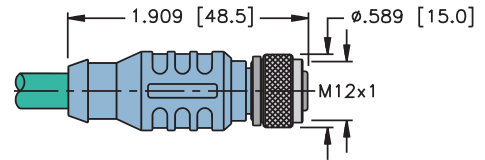
11



RSCD/RSSD ..

Pages K16

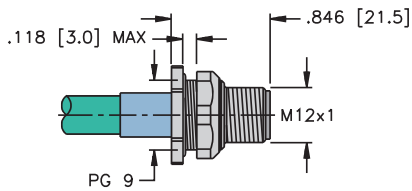
12



RKCD/RKSD ..

Pages K16

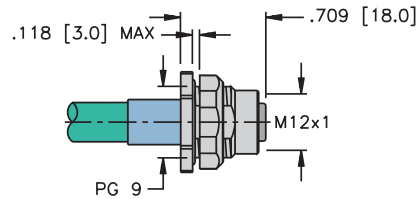
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FSFDD ..

Pages K16

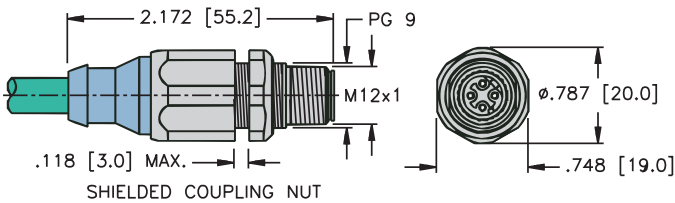
14



FKFDD ..

Pages K16

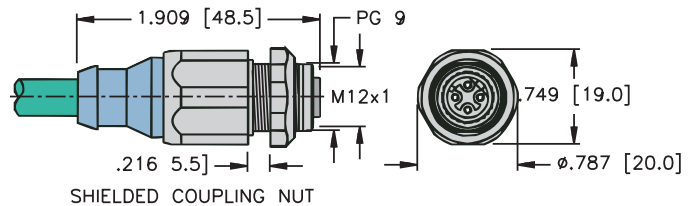
15



FSSDED ..

Pages K18

16



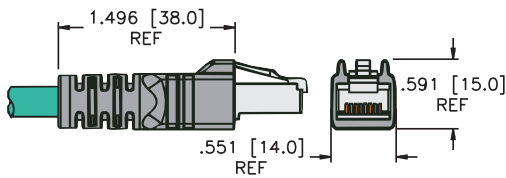
FKSDED ..

Pages K18

Specifications

Overmold:	TPU
Plug Material:	Polycarbonate
Protection:	NEMA 1, 3, 4, 6P and IEC IP 20
Rated Voltage:	42 V
Rated Current:	1.5 A
Ambient Temperature:	-25° to +75°C (-22° to +176°F)

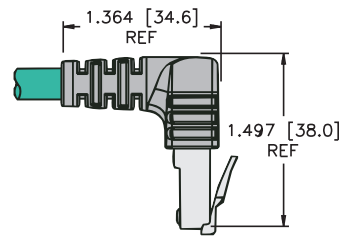
17



RJ45/RJ45S ..

Page K16

18

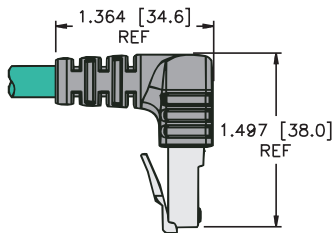


External Tab

WRJ45E/WRJ45ES ..

Page K16

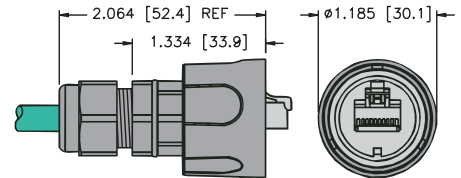
18



WRJ45I/WRJ45IS ..

Internal tab version

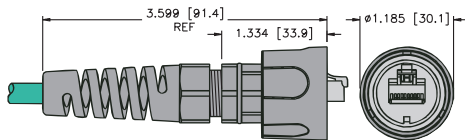
19



RJ45MIP67/RJ45SMIP67..

Page K16

20



RJ45IP67 ..

Page K16

TURCK EtherNet/IP™ Physical Media Connectivity

Ethernet, Receptacle

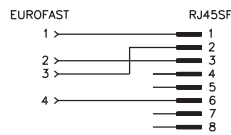
- Transitions from a RJ45 Connector to a 4-wire *eurofast*® Connector



Housing Style	Part Number	Features
	FKSDD RJ45SF 44	Polyurethane, TPU Overmold, 42 V, 1.5 A, -40° to +75°C

Panel mounting clearance hole 19/32" (15 mm). Panel thickness: .060-.120" (1.5-3 mm)

Wiring Diagram

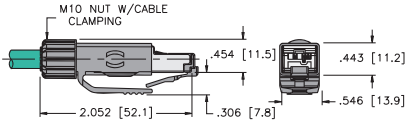

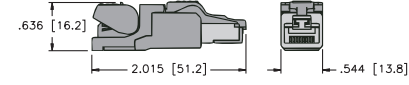
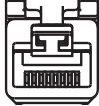
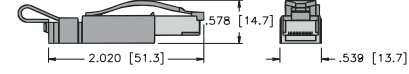



RJ45 Receptacle	Pinouts	<i>eurofast</i> Female
<p>Female</p>	<ol style="list-style-type: none"> 1. White/Orange (+TX) 2. Orange (-TX) 3. White/Green (+RX) 4. N/C 5. N/C 6. Green (-RX) 7. N/C 8. N/C 	<p>Female</p>


Ethernet, RJ45 Field Wireable

- Allows for Quick Connections in the Field
- Fully Shielded
- Includes Assembly Instructions



Housing	Part Number	Features	Pinout
	Connector, RJ45S IDC	22-24 AWG stranded, 22-23 AWG solid, -40° to +70°C	Male 
	Connector, FW, RJ45S 84 IDC	22-27 AWG stranded, 22-24 AWG solid, -40° to +85°C, Cat 6	Male 
	Connector, FW, RJ45S 86 IDC CAT 6	22-26 AWG, -40° to +70°C, Cat 6A	Male 

Ethernet IP Media

RJ45 Plug	Pinout
Male 	1. White/Orange (+TX) 2. Orange (-TX) 3. White/Green (+RX) 4. N/C 5. N/C 6. Green (-RX) 7. N/C 8. N/C

TURCK EtherNet/IP™ Physical Media Connectivity

Ethernet, 4-Pin D-coded Field Wireables

- Allows for Quick Connections when Pre-Molded Cables are not Available
- Available in Male, Straight and Right Angle Connector Configurations

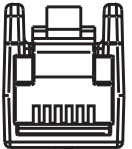


Housing Style	Female Part Number	Male Part Number	Features	Pinouts
<p>CMBD 81..</p>	CMBD 8141-0/PG9	CMBSD 8141-0/PG9	4 A, 250 V, -40 to +85°C, mates with female 4-pin D-coded eurofast™ cordsets and receptacles	<p>Female</p>
<p>CMBSD 81..</p>				
<p>CMBD 82..</p>	CMBD 8241-0/PG9	CMBSD 8241-0/PG9		<p>Male</p>
<p>CMBSD 82..</p>				

Ethernet®, RJ11 Cordsets

- Double Ended
- Available in 1, 2, 5 Meter Extended Lengths



Part Number	Features	Pinouts	
RJ11S RJ11S 4412-*M	PVC, 1.5 A, 42 V, -40° to +75°C, industrial phone connection RJ11 connector	<ol style="list-style-type: none"> 1. N/C 2. White/Orange (+TX) 3. Orange (-TX) 4. White/Green (+RX) 5. Green (-RX) 6. N/C 	 <p style="text-align: center;">123456</p>