

Part Number Keys	K3
Cordsets	K6
Receptacles	K13
EtherNet/IP Cordsets	K16
Field Wireables	K23

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:

- Controller
- Ethernet I/O modules
- Power supply
- Switches
- Ethernet cable

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.

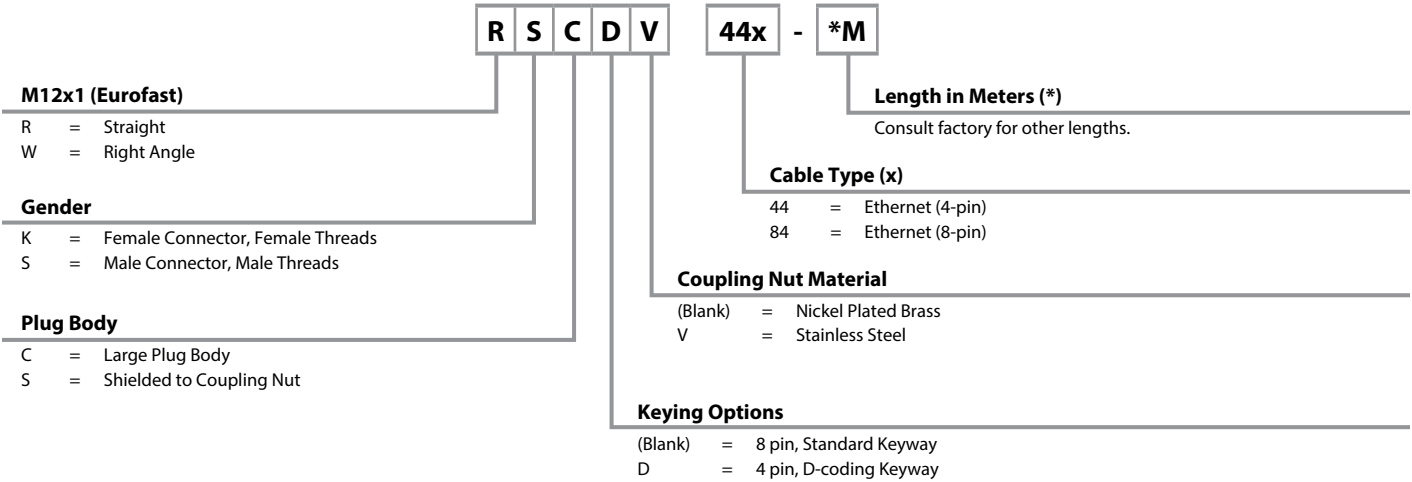
Most Turck Ethernet equipment uses the 4 or 8-pin (M12) Eurofast® connector specifications. These connectors provide a tough, rugged seal, and are IP 67 rated. In some cases (mainly in the control cabinet) a traditional RJ45 Ethernet connector needs to be used. Turck provides RJ45 cordsets, as well as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

Maximum Lengths Ratings

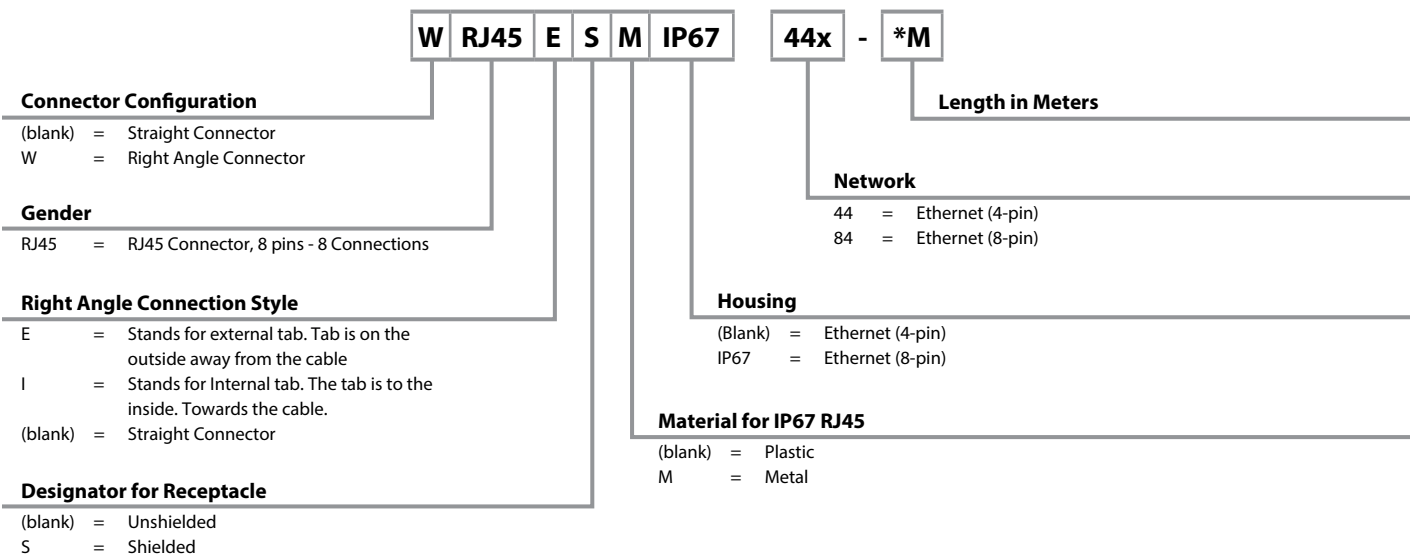
Ethernet allows different maximum cable lengths depending on the type of cable being used. An Ethernet segment may be as long as 100 m, with up to 90 m solid core cable and the remaining 10 m can be stranded patch cords.

Eurofast® Cordset Part Number Key

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



RJ45 Network Cordsets Part Number Key

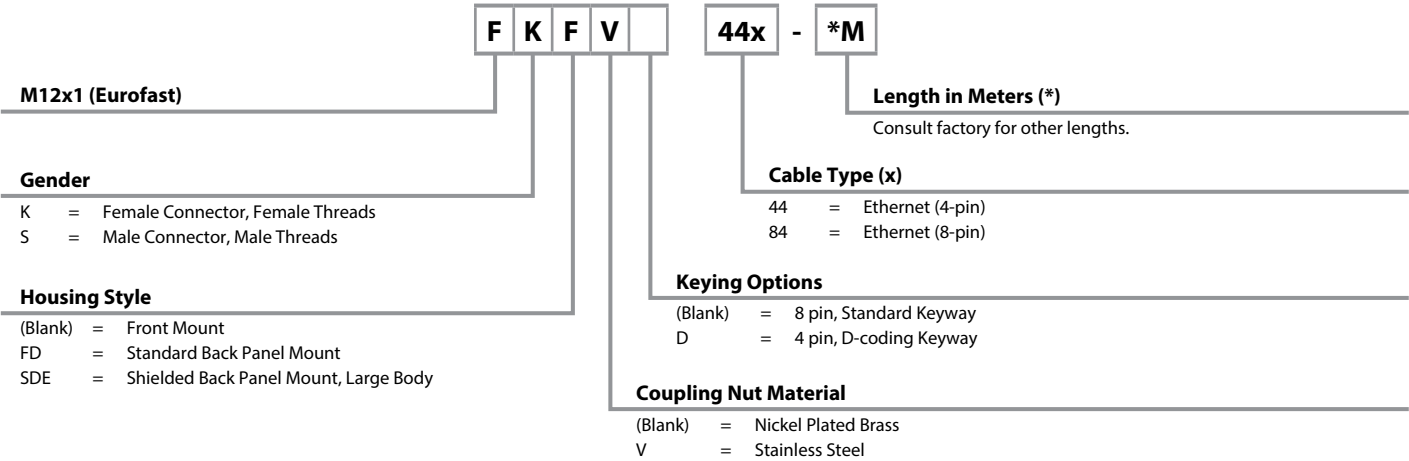


Ethernet

Ethernet Physical Media Connectivity

Eurofast® Receptacle Part Number Key

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



Ethernet, Cable Specifications, 8-wire

- Cable that meets the requirements of TIA/EIA568-C.2 Category 5e Cable for 10 and 100 Base-T Ethernet
- Cable is UL Rated for Sunlight and Oil Resistant



We reserve the right to make technical alterations without prior notice.

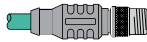
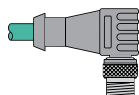
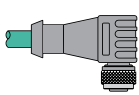
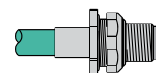
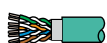
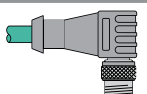
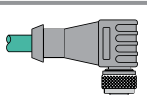
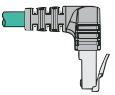
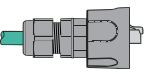
Type	Approvals	Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M	Flexlife Ratings
		AWG Color Code	DCR (/1000 feet) Insulation	Material Color Nominal O.D.	Type		
840 80 °C, 600 V	c(UL)us Type CM AWM	4UTPx24 AWG Stranded	26.5 Ohms PE	TPE Teal 6.3 mm (.118 in)	-	RB51460-*M 29 lbs. Flexlife®	10xO.D. 1 million cycles 20xO.D. 10 million cycles
841 80 °C, 600 V	c(UL)us Type CM AWM	4UTPx24 AWG Stranded	26.5 Ohms PE	TPE Teal 7.7 mm (.303 in)	Foil/Braid	RB50893-*M 43 lbs. Flexlife	10xO.D. 1 million cycles 20xO.D. 10 million cycles
842 75 °C, 300 V	c(UL)us Type CM AWM	4UTPx24 AWG Solid	31.5 Ohms PE	TPE Teal 6.1 mm (.240 in)	-	RB51462-*M 26 lbs.	-
843 80 °C, 600 V	c(UL)us Type CM AWM	4UTPx24 AWG Solid	28.6 Ohms PE	TPE Teal 7.3 mm (.287 in)	Foil/Braid	RB51463-*M 41 lbs.	-
849A AWM 444 75 °C, 300 V	NEC CM IAA CMG, FT4	4UTPx24 AWG Solid	27.5 Ohms PO	PVC Black 14.1 mm (.555 in)	Foil/Braid Armor	RB51100-*M 100 lbs. Armorfast®	-

* 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.

Ethernet Media

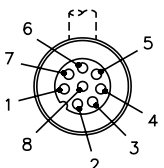
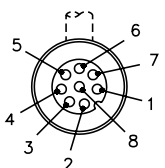
Ethernet Physical Media Connectivity

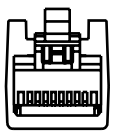
Ethernet, (M12x1) Eurofast®, RJ45, Cable/Cordset Selection Matrix - Unshielded

			Eurofast				
			Male		Female		Male
			1  RSC	2  WSC	3  RKC	4  WKC	5  FSFD
Eurofast	Male	 Bare	RSC 84x-*M	WSC 84x-*M	RKC 84x-*M	WKC 84x-*M	FSFD 84x-*M
		1  RSC	RSC RSC 84x-*M	RSC WSC 84x-*M	RSC RKC 84x-*M	RSC WKC 84x-*M	RSC FSFD 84x-*M
	2  WSC	WSC RSC 84x-*M	WSC WSC 84x-*M	WSC RKC 84x-*M	WSC WKC 84x-*M	WSC FSFD 84x-*M	
	Female	3  RKC			RKC RKC 84x-*M		RKC FSFD 84x-*M
		4  WKC			RKC WKC 84x-*M	WKC WKC 84x-*M	WKC FSFD 84x-*M
	RJ45	RJ45 Plug 9  RJ45					RJ45 FSFD 84x-*M
		WRJ45 Plug 10  WRJ45E					WRJ45E FSFD 84x-*M
		RJ45M IP67 Plug 11  RJ45MIP67					RJ45MIP67 FSFD 84x-*M
RJ45 IP67 Plug 12  RJ45IP67						RJ45IP67 FSFD 84x-*M	

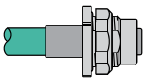
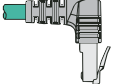
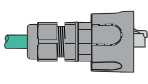
We reserve the right to make technical alterations without prior notice.

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	1. White/Green 2. Green 3. White/Orange 4. Blue 5. White/Blue 6. Orange 7. White/Brown 8. Brown
	 12345678	

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

Eurofast		RJ45		
Female	RJ45 Plug	WRJ45 Plug	RJ45M IP67 Plug	RJ45 IP67 Plug
6  FKFD	9  RJ45	10  WRJ45E	11  RJ45MIP67	12  RJ45IP67
FKFD 84x-*M	RJ45 84x-*M	WRJ45E 84x-*M	RJ45MIP67 84x-*M	RJ45IP67 84x-*M
RSC FKFD 84x-*M	RSC RJ45 84x-*M	RSC WRJ45E 84x-*M	RSC RJ45MIP67 84x-*M	RSC RJ45IP67 84x-*M
WSC FKFD 84x-*M	WSC RJ45 84x-*M	WSC WRJ45E 84x-*M	WSC RJ45MIP67 84x-*M	WSC RJ45IP67 84x-*M
RKC FKFD 84x-*M	RKC RJ45 84x-*M	RKC WRJ45E 84x-*M	RKC RJ45MIP67 84x-*M	RKC RJ45IP67 84x-*M
WKC FKFD 84x-*M	WKC RJ45 84x-*M	WKC WRJ45E 84x-*M	WKC RJ45MIP67 84x-*M	WKC RJ45IP67 84x-*M
RJ45 FKFD 84x-*M	RJ45 RJ45 84x-*M		RJ45 RJ45MIP67 84x-*M	RJ45 RJ45IP67 84x-*M
WRJ45E FKFD 84x-*M	WRJ45E RJ45 84x-*M	WRJ45E WRJ45E 84x-*M	WRJ45 RJ45MIP67 84x-*M	WRJ45E RJ45IP67 84x-*M
RJ45MIP67 FKFD 84x-*M			RJ45MIP67 RJ45MIP67 84x-*M	RJ45MIP67 RJ45IP67 84x-*M
RJ45IP67 FKFD 84x-*M			RJ45IP67 RJ45MIP67 84x-*M	RJ45IP67 RJ45IP67 84x-*M

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.

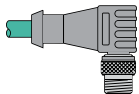
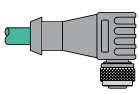
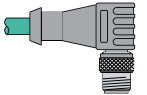
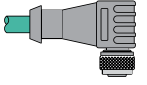
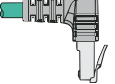
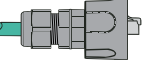
For stainless steel coupling nuts change part number RSC ... to RSCV, FKFD ... to FKFDV.

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.

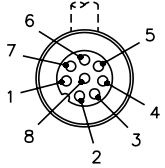
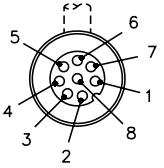
Ethernet Physical Media Connectivity

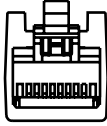
Ethernet, (M12x1) Eurofast®, RJ45, Cable/Cordset Selection Matrix - Shielded

		Eurofast				
		Male		Female		
		1  RSS	2  WSS	3  RKS	4  WKS	
 Bare		RSS 84x-*M	WSS 84x-*M	RKS 84x-*M	WKS 84x-*M	
Eurofast	Male	1  RSS	RSS RSS 84x-*M	RSS WSS 84x-*M	RSS RKS 84x-*M	RSS WKS 84x-*M
		2  WSS	WSS RSS 84x-*M	WSS WSS 84x-*M	WSS RKS 84x-*M	WSS WKS 84x-*M
	Female	3  RKS			RKS RKS 84x-*M	
		4  WKS			WKS RKS 84x-*M	WKS WKS 84x-*M
RJ45	RJ45 Plug	9  RJ45S				
	WRJ45 Plug	10  WRJ45ES				
	RJ45M IP67 Plug	11  RJ45SMIP67				

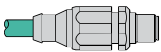
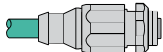
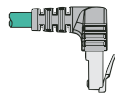
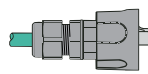
See pages K10 - K11 for dimensional drawings.

We reserve the right to make technical alterations without prior notice.

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	1. White/Green 2. Green 3. White/Orange 4. Blue 5. White/Blue 6. Orange 7. White/Brown 8. Brown
	 12345678	

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

Eurofast		RJ45		
Male	Female	RJ45 Plug	WRJ45 Plug	RJ45M IP67 Plug
7  FSSDE	8  FKSDE	9  RJ45S	10  WRJ45ES	11  RJ45SMIP67
FSSDE 84x-*M	FKSDE 84x-*M	RJ45S 84x-*M	WRJ45ES 84x-*M	RJ45SMIP67 84x-*M
RSS FSSDE 84x-*M	RSS FKSDE 84x-*M	RSS RJ45S 84x-*M	RSS WRJ45ES 84x-*M	RSS RJ45SMIP67 84x-*M
WSS FSSDE 84x-*M	WSS FKSDE 84x-*M	WSS RJ45S 84x-*M	WRJ45ES 84x-*M	WSS RJ45SMIP67 84x-*M
RKSS FSSDE 84x-*M	RKS FKSDE 84x-*M	RKS RJ45S 84x-*M	RKS WRJ45ES 84x-*M	RKS RJ45SMIP67 84x-*M
WKS FSSDE 84x-*M	WKS FKSDE 84x-*M	WKS RJ45S 84x-*M	WKS WRJ45ES 84x-*M	WKS RJ45SMIP67 84x-*M
RJ45S FSSDE 84x-*M	RJ45S FKSDE 84x-*M	RJ45S RJ45S 84x-*M		RJ45SS RJ45SMIP67 84x-*M
WRJ45 FSSDE 84x-*M	WRJ45 FKSDE 84x-*M	WRJ45ES RJ45S 84x-*M	WRJ45ES WRJ45ES 84x-*M	WRJ45ES RJ45SMIP67 84x-*M
RJ45SMIP67 FSSDE 84x-*M	RJ45SMIP67 FKSDE 84x-*M			RJ45SMIP67 RJ45SMIP67 84x-*M

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.

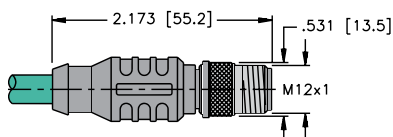
For cross-over cable, add "CR" to part number RJ45S RJ45S CR 84x-*M.

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

Specifications

Overmold:	TPU	Protection:	NEMA 1, 3, 4, 6P and IEC IP 67
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	Rated Voltage:	60 V
Contact Carrier:	TPU or POM (Nylon)	Rated Current:	2 A
Contacts:	Gold Plated CuZn	Ambient Temperature:	-40 °C to +80 °C (32 °F to +176 °F)

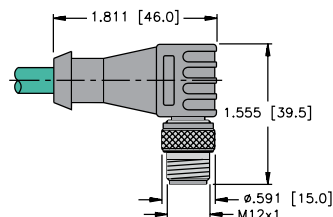
1



RSC/RSS ..

Page K6

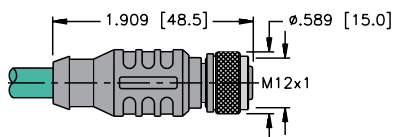
2



WSC/WSS ..

Page K6

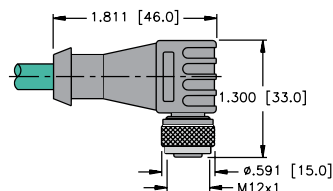
3



RKC/RKS ..

Page K6

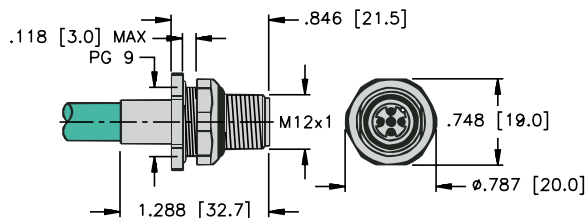
4



WKC/WKS ..

Page K6

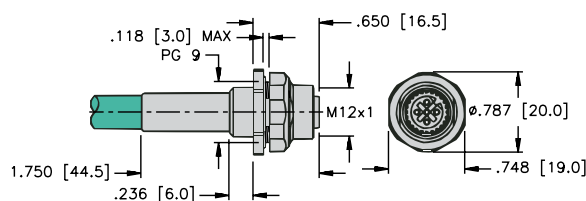
5



FSFD ..

Page K6

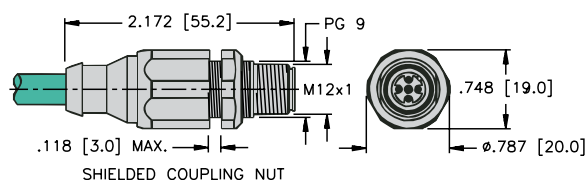
6



FKFD ..

Page K7

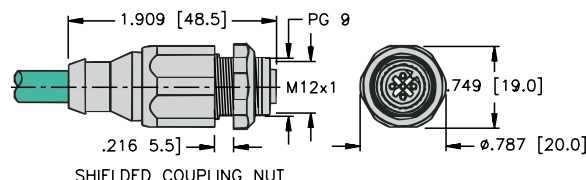
7



FSSDE ..

Page K9

8



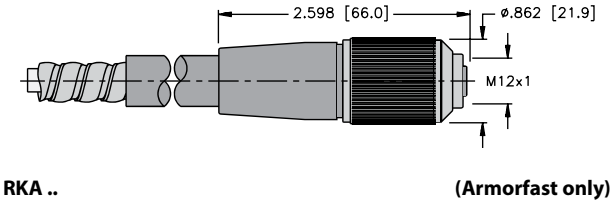
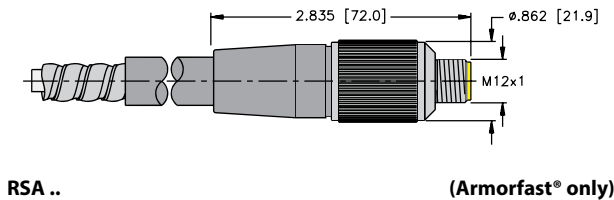
FKSDE ..

Page K9

We reserve the right to make technical alterations without prior notice.

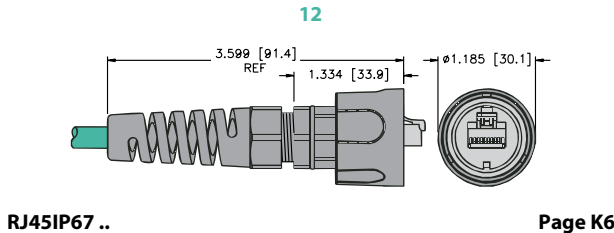
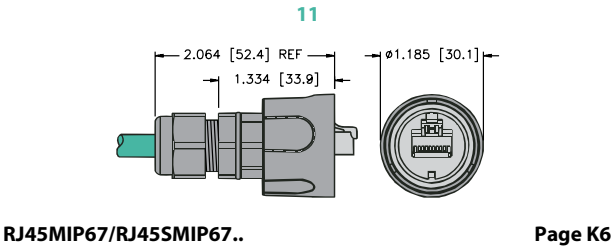
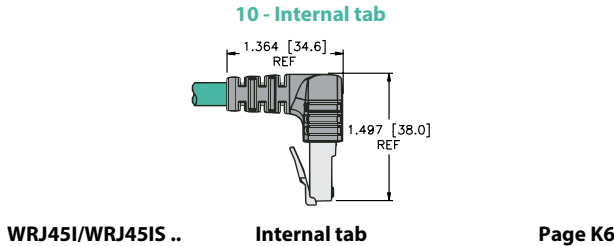
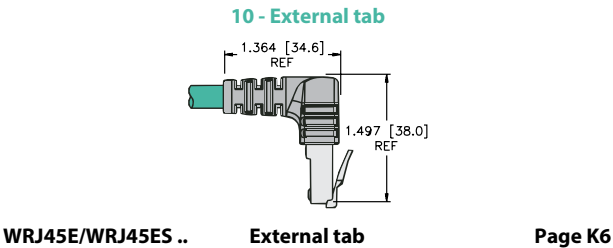
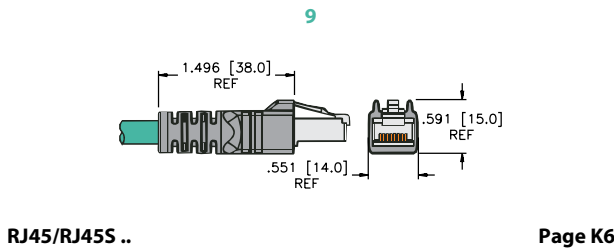
Specifications

Overmold:	TPU	Protection:	NEMA 1, 3, 4, 6P and IEC IP 67
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	Rated Voltage:	60 V
Contact Carrier:	TPU or POM (Nylon)	Rated Current:	2 A
Contacts:	Gold Plated CuZn	Ambient Temperature:	-40 °C to +75 °C (-22 °F to +167 °F)



Specifications

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



We reserve the right to make technical alterations without prior notice.

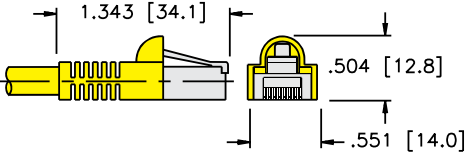
Ethernet Media

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	End View	Pinout
	RJ45 RJ45 840-3FT/ECON	• Ethernet patch cordsets for panel connections • Economy, non industrial	 Male 12345678	1. WH/OG 2. OG 3. WH/GN 4. BU 5. WH/BU 6. GN 7. WH/BN 8. BN
	RJ45 RJ45 840-7FT/ECON			

We reserve the right to make technical alterations without prior notice.

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

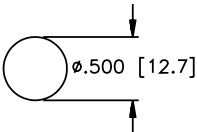
- Provides (M12x1) Eurofast® 8-Pin Connection to Field Devices



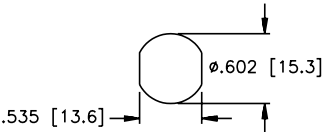
Housing	Female Part Number	Male Part Number	Features	Pinout
FK 84 PCB KIT	FK 84-PCB KIT	FS 84-PCB KIT	Nickel plated CuZn or stainless steel, 36 VDC, 1.5 A, -40 °C to +80 °C, Eurofast with mounting kit	Female
FS 84 PCB KIT				Male
FK 84 PCB	FK 84-PCB		Nickel plated CuZn or stainless steel, 36 VDC, 1.5 A, -40 °C to +80 °C, Eurofast	

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

Panel Cutout
FK ... FS



Panel Cutout
FKFD ... FSFD



We reserve the right to make technical alterations without prior notice.

Ethernet Media

Ethernet Physical Media Connectivity

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

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



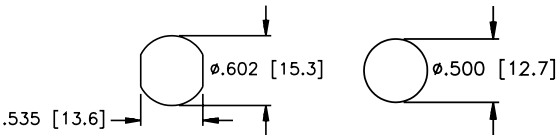
Housing	Female Part Number	Male Part Number	Features	Pinout
FKFD..	FKFD 84-PCB	FSFD 84-PCB	Nickel plated CuZn or stainless steel 36 VDC, 1.5 A, -40 °C to +80 °C, Eurofast PCB pins	Female
FSFD..				
FKFDL	FKFDL 84	FSFDL 84	Nickel plated CuZn or stainless steel 36 VDC, 1.5 A, -40 °C to +80 °C, male Eurofast solder cups	Male
FSFDL..				
WFS..		WFS 84-PCB	Nickel plated CuZn or stainless steel 36 VDC, 1.5 A, -40 °C to +80 °C, male Eurofast right angle PCB pins	

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

We reserve the right to make technical alterations without prior notice.

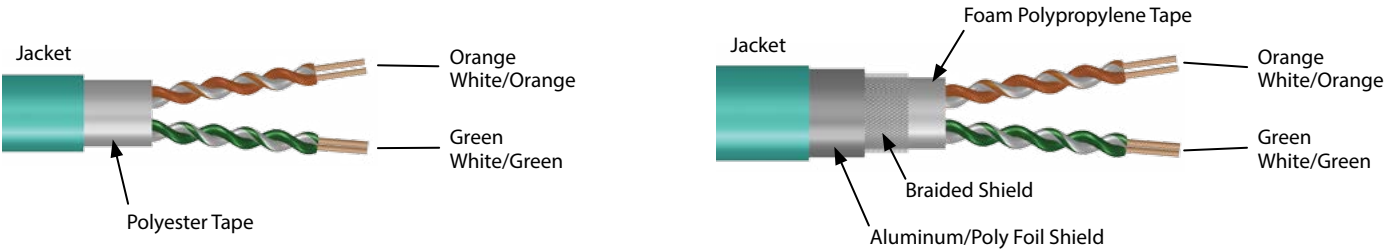
Panel Cutout
FKFD ... FSFD

Panel Cutout
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)

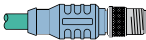
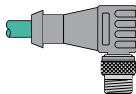
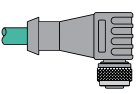
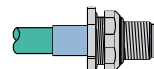
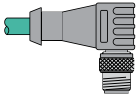
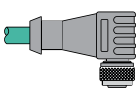
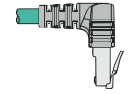
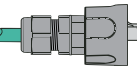
We reserve the right to make technical alterations without prior notice.

Type	Approvals	Data Pair		Outer Jacket	Shields	Bulk Cable Part Number / Weight/300 M	Flexlife Ratings
		AWG Color Code	DCR (/1000 feet) Insulation	Material Color Nominal O.D.	Type		
440 80 °C, 600 V	c(UL)us Type CM AWM	2UTPx24 AWG Stranded	26.5 Ohms PE	TPE Teal 6.1 mm (.240 in)	-	RB51210-*M 26 lbs. Flexlife®	10xO.D. 1 million cycles 20xO.D. 10 million cycles
441 80 °C, 600 V	c(UL)us Type CM AWM	2UTPx24 AWG Stranded	26.5 Ohms PE	TPE Teal 6.7 mm (.240 in)	Foil/Braid	RB51211-*M 35 lbs. Flexlife	10xO.D. 1 million cycles 20xO.D. 10 million cycles
442 75 °C, 300 V	c(UL)us Type CM	2UTPx24 AWG Solid	31.5 Ohms PE	TPE Teal 6.1 mm (.220 in)	-	RB51212-*M 18 lbs.	-
443 80 °C, 600 V	c(UL)us Type CM AWM	2UTPx24 AWG Solid	31.5 Ohms PE	TPE Teal 6.9 mm (.270 in)	Foil/Braid	RB51213-*M 38 lbs.	-

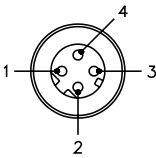
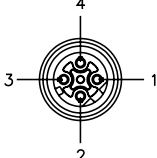
* Indicates length in meters.
Standard spool lengths are 30, 75, 100, 150, 200, 225, 300 meters. Consult factory for other lengths.

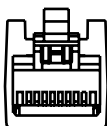
Ethernet Physical Media Connectivity

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

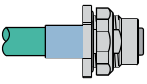
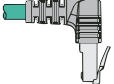
			Eurofast				
			Male		Female		Male
			11  RSCD	2  WSCD	12  RKCD	4  WKCD	13  FSFDD
 Bare			RSCD 44x-*M	WSCD 44x-*M	RKCD 44x-*M	WKCD 44x-*M	FSFDD 44x-*M
Eurofast	Male	11  RSCD	RSCD RSCD 44x-*M	RSCD WSCD 44x-*M	RSCD RKCD 44x-*M	RSCD WKCD 44x-*M	RSCD FSFDD 44x-*M
		2  WSCD	WSCD RSCD 44x-*M	WSCD WSCD 44x-*M	WSCD RKCD 44x-*M	WSCD WKCD 44x-*M	WSCD FSFDD 44x-*M
	Female	12  RKCD			RKCD RKCD 44x-*M		RKCD FSFDD 44x-*M
		4  WKCD			WKCD RKCD 44x-*M	WKCD WKCD 44x-*M	WKCD FSFDD 44x-*M
RJ45	RJ45 Plug	17  RJ45					RJ45 FSFDD 44x-*M
	WRJ45 Plug	18  WRJ45E					WRJ45E FSFDD 44x-*M
	RJ45M IP67 Plug	19  RJ45MIP67					RJ45MIP67 FSFDD 44x-*M
	RJ45 IP67 Plug	20  RJ45IP67					RJ45IP67 FSFDD 44x-*M

We reserve the right to make technical alterations without prior notice.

Eurofast	Pinouts	Eurofast
Male		Female
	1. White/Orange (+ tx) 2. White/Green (+rx) 3. Orange (-tx) 4. Green (-rx)	

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

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

Eurofast		RJ45		
Female	RJ45 Plug	WRJ45 Plug	RJ45M IP67 Plug	RJ45 IP67 Plug
14  FKFDD	17  RJ45	18  WRJ45E	19  RJ45MIP67	20  RJ45IP67
FKFDD 44x-*M	RJ45 44x-*M	WRJ45E 44x-*M	RJ45MIP67 44x-*M	RJ45IP67 44x-*M
RSCD FKFDD 44x-*M	RSCD RJ45 44x-*M	RSCD WRJ45E 44x-*M	RSCD RJ45MIP67 44x-*M	RSCD RJ45IP67 44x-*M
WSCD FKFDD 44x-*M	WSCD RJ45 44x-*M	WSCD WRJ45E 44x-*M	WSCD RJ45MIP67 44x-*M	WSCD RJ45IP67 44x-*M
RKCD FKFDD 44x-*M	RKCD RJ45 44x-*M	RKCD WRJ45E 44x-*M	RKCD RJ45MIP67 44x-*M	RKCD RJ45IP67 44x-*M
WKCD FKFDD 44x-*M	WKCD RJ45 44x-*M	WKCD WRJ45E 44x-*M	WKCD RJ45MIP67 44x-*M	WKCD RJ45IP67 44x-*M
RJ45 FKFDD 44x-*M	RJ45 RJ45 44x-*M		RJ45 RJ45MIP67 44x-*M	RJ45 RJ45IP67 44x-*M
WRJ45E FKFDD 44x-*M	WRJ45E RJ45 44x-*M	WRJ45E WRJ45E 44x-*M	WRJ45E RJ45MIP67 44x-*M	WRJ45E RJ45IP67 44x-*M
RJ45MIP67 FKFDD 44x-*M			RJ45MIP67 RJ45MIP67 44x-*M	
RJ45IP67 FKFDD 44x-*M			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.

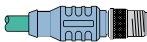
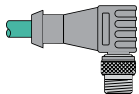
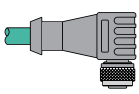
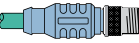
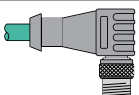
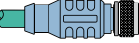
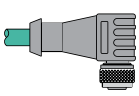
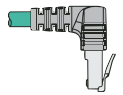
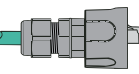
For right angle RJ45, select WRJ45I for internal tab or WRJ45E for external tab.

We reserve the right to make technical alterations without prior notice.

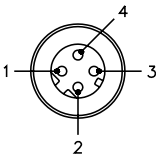
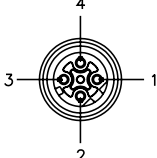
Ethernet Media

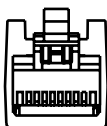
Ethernet Physical Media Connectivity

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

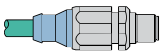
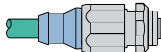
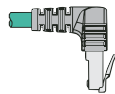
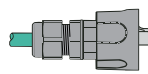
		Eurofast					
		Male		Female			
		11	2	12	4		
							
		RSSD	WSSD	RKSD	WKSD		
		RSSD 44x-*M	WSSD 44x-*M	RKSD 44x-*M	WKSD 44x-*M		
Bare							
Eurofast	Male	11		RSSD RSSD 44x-*M	RSSD WSSD 44x-*M	RSSD RKSD 44x-*M	RSSD WKSD 44x-*M
		RSSD					
	2		WSSD RSSD 44x-*M	WKSD WSSD 44x-*M	WSSD RKSD 44x-*M	WSSD WKSD 44x-*M	
	WSSD						
Female	12				RKSD RKSD 44x-*M		
	RKSD						
	4				RKSD WKSD 44x-*M	WKSD WKSD 44x-*M	
	WKSD						
RJ45	RJ45 Plug	17					
		RJ45S					
	WRJ45 Plug	18					
	WRJ45ES						
	RJ45M IP67 Plug	19					
	RJ45SMIP67						

We reserve the right to make technical alterations without prior notice.

Eurofast	Pinouts	Eurofast
Male		Female
	1. White/Orange (+ tx) 2. White/Green (+rx) 3. Orange (-tx) 4. Green (-rx)	

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

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

Eurofast		RJ45		
Male	Female	RJ45 Plug	WRJ45 Plug	RJ45M IP67 Plug
15  FSSDED	16  FKSDED	17  RJ45S	18  WRJ45ES	19  RJ45SMIP67
FSSDED 44x-*M	FKSDED 44x-*M	RJ45S 44x-*M	WRJ45ES 44x-*M	RJ45SMIP67 44x-*M
RSSD FSSDED 44x-*M	RSSD FKSDED 44x-*M	RSSD RJ45S 44x-*M	RSSD WRJ45ES 44x-*M	RSSD RJ45SMIP67 44x-*M
WSSD FSSDED 44x-*M	WSSD FKSDED 44x-*M	WSSD RJ45S 44x-*M	WSSD WRJ45ES 44x-*M	WSSD RJ45SMIP67 44x-*M
RKSD FSSDED 44x-*M	RKSD FKSDED 44x-*M	RKSD RJ45S 44x-*M	RKSD WRJ45ES 44x-*M	RKSD RJ45SMIP67 44x-*M
WKSD FSSDED 44x-*M	RSSD FKSDED 44x-*M	WKSD RJ45S 44x-*M	WKSD WRJ45ES 44x-*M	WKSD RJ45SMIP67 44x-*M
RJ45S FSSDED 44x-*M	RJ45S FKSDED 44x-*M	RJ45S RJ45S 44x-*M		RJ45S RJ45SMIP67 44x-*M
WRJ45ES FSSDED 44x-*M	WRJ45ES FKSDED 44x-*M	WRJ45ES RJ45S 44x-*M	WRJ45ES WRJ45ES 44x-*M	WRJ45ES RJ45SMIP67 44x-*M
RJ45SMIP67 FSFD 84x-*M	RJ45SMIP67 FKFD 84x-*M			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.

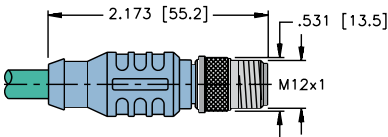
We reserve the right to make technical alterations without prior notice.

Ethernet Media

Specifications

Overmold:	TPU	Protection:	NEMA 1, 3, 4, 6P and IEC IP 67
Coupling Nut:	Nickel Plated CuZn or Stainless Steel	Rated Voltage:	250 V
Contact Carrier:	TPU or POM (Nylon)	Rated Current:	4 A
Contacts:	Gold Plated CuZn	Ambient Temperature:	-40 °C to +80 °C (32 °F to +176 °F)

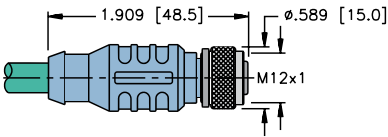
11



RSCD/RSSD ..

Page K16

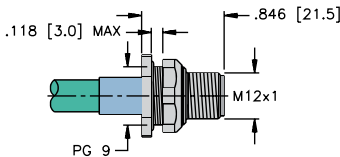
12



RKCD/RKSD ..

Page K16

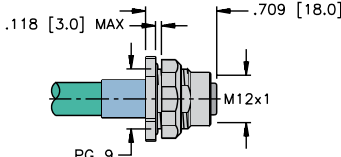
13



FSFDD ..

Page K16

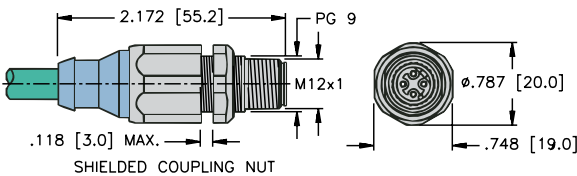
14



FKFDD ..

Page K17

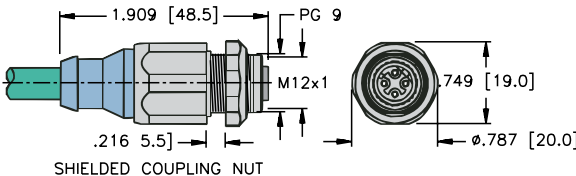
15



FSSDED ..

Page K19

16



FKSDDED ..

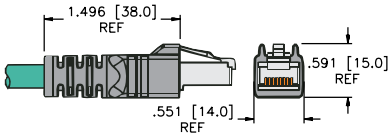
Page K19

We reserve the right to make technical alterations without prior notice.

Specifications

Overmold:	TPU	Rated Voltage:	42 V
Plug Material:	Polycarbonate	Rated Current:	1.5 A
Protection:	NEMA and IEC IP 20	Ambient Temperature:	-25 °C to +80 °C (-22 °F to +176 °F)

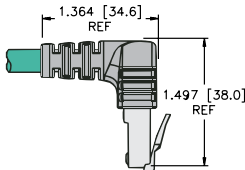
17



RJ45/RJ45S ..

Page K16

18 - External tab

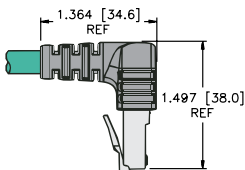


WRJ45E/WRJ45ES ..

External tab

Page K16

18 - Internal tab

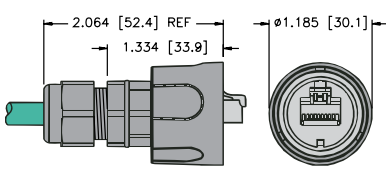


WRJ45I/WRJ45IS ..

Internal tab

Page K16

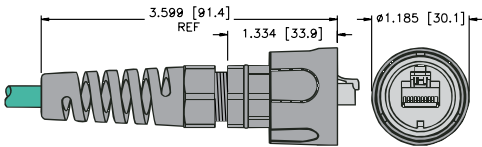
19



RJ45MIP67/RJ45SMIP67..

Page K16

20



RJ45IP67 ..

Page K16

We reserve the right to make technical alterations without prior notice.

Ethernet Media

Ethernet Physical Media Connectivity

Ethernet, Receptacle

- Transitions from a RJ45 Connector to a 4-wire Eurofast® Connector

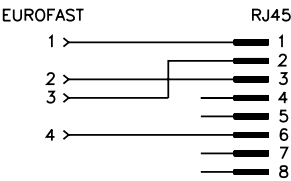


Housing Style	Part Number	Features
	FKSD RJ45SF 44	Polyurethane, TPU Overmold, 42 V, 1.5 A, -40 °C to +75 °C
	FKSD RJ45SF 44/ST	Polyurethane, TPU Overmold, 42 V, 1.5 A, -40 °C to +75 °C
	FKD FKD 44/M12	4 A, 50 V, -25 °C to +85 °C, wired one-to-one

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

We reserve the right to make technical alterations without prior notice.

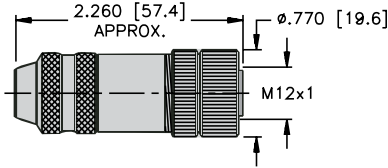
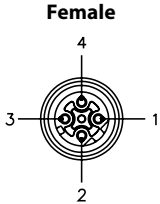
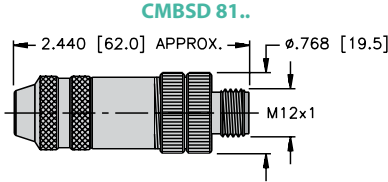
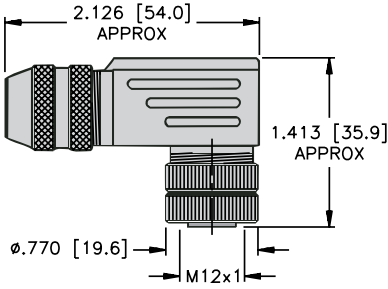
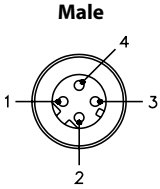
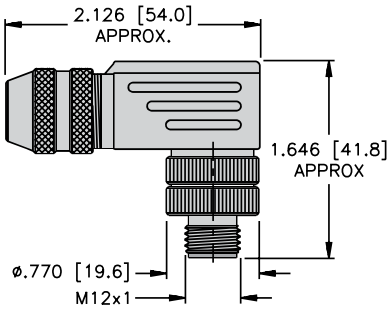
Wiring Diagrams



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	Pinout
CMBD 81.. 	CMBD 8141-0/PG9	CMBSD 8141-0/PG9	4 A, 250 V, -40 °C to +85 °C, mates with female 4-pin D-coded Eurofast® cordsets and receptacles	Female 
CMBSD 81.. 				
CMBD 82.. 	CMBD 8241-0/PG9	CMBSD 8241-0/PG9		Male 
CMBSD 82.. 				

We reserve the right to make technical alterations without prior notice.

Ethernet Media

Ethernet Physical Media Connectivity

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

We reserve the right to make technical alterations without prior notice.