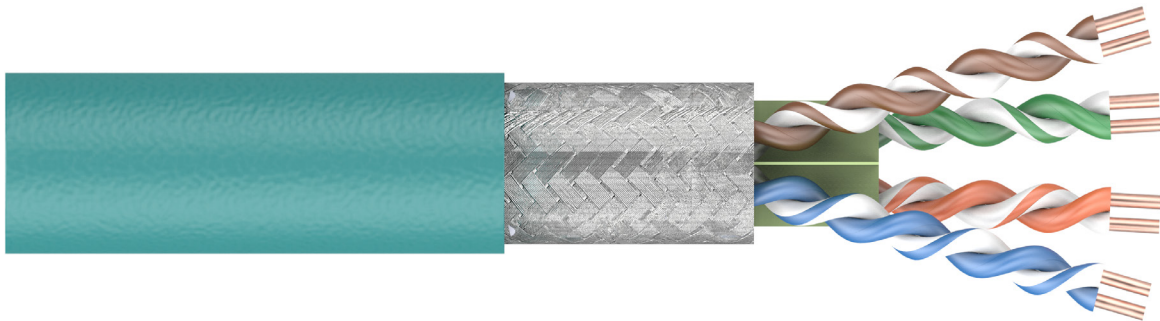# TURCK Ethernet™ Physical Media Connectivity

High Speed – 10 Gpbs Ethernet
M12 X-code

- **Category 6$_A$ in compliance with ISO/IEC 11801 and IEC 61156 Amendment 2**
- **Category 6A compliant with EIA/TIA 568 C.2**
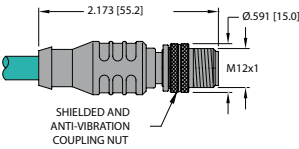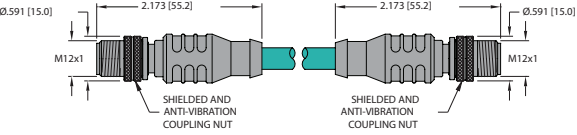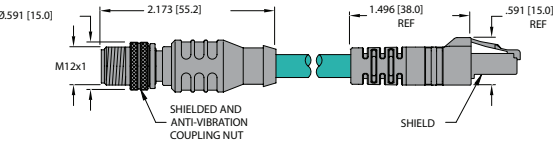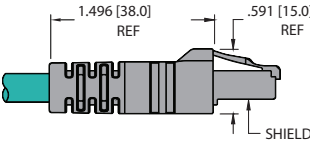- **X-code connector compliant with IEC/PAS 61076-2-109**
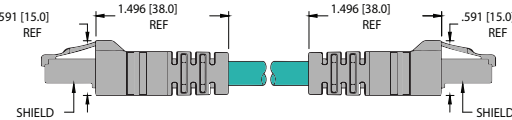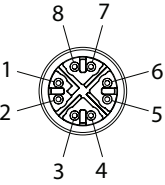
Type	Compliance	Data Pair		Jacket/Diameter	Shield
		DC Resistance			
860 80°C	IEC 61156 ISO/IEC 11801	4UTPX26 AWG Stranded	≤ 44.4 Ω /1000ft	TPE 7.4 mm (0.290")	Overall foil shield, overall braid

Key Features:
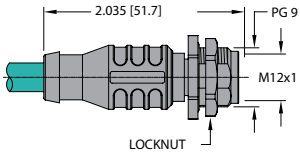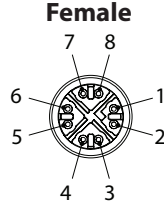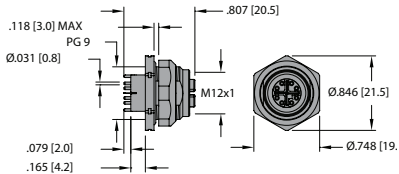
- High flex, up to 10 million cycles at 17x cable OD
- 360 shielding to reduce alien cross-talk, plus internal cable spline to help isolate the pairs
- Suitable for PoE+ applications
- IP67 ingress protection for X-code M12 (RJ45 rated to IP20)
- Weld sspatter resistant jacket, rated -40 °C to +80 °C
- RoHS compliant
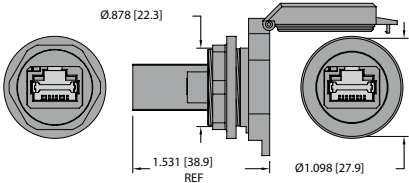
Product Range

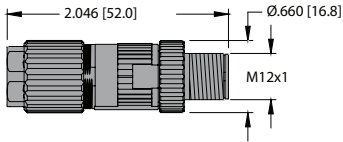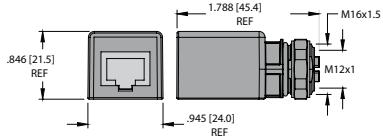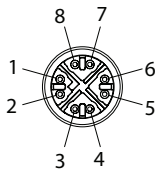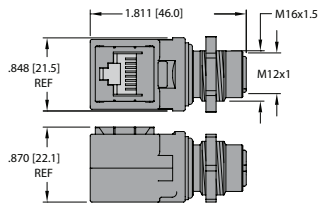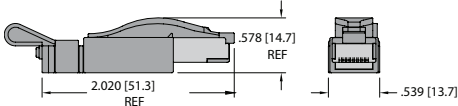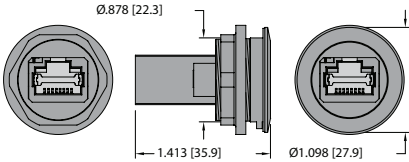| Connector Type	Part Number	Features
Single M12 2.173 [55.2] · Ø.591 [15.0] · M12x1 SHIELDED AND ANTI-VIBRATION COUPLING NUT	**RSSX 860-*M**	X-code CAT 6$_A$ Single ended, 8 poles, male (straight), shielded, IP68, 75˚C, 48V, 0.5A
M12 Extension Ø.591 [15.0] · 2.173 [55.2] · M12x1 · 2.173 [55.2] · Ø.591 [15.0] · M12x1 SHIELDED AND ANTI-VIBRATION COUPLING NUT · SHIELDED AND ANTI-VIBRATION COUPLING NUT	**RSSX RSSX 860-*M**	X-code CAT 6$_A$ double ended, 8 poles, male (straight), shielded, IP68, 75˚C, 48V, 0.5A
M12 – RJ45 extension Ø.591 [15.0] · 2.173 [55.2] · M12x1 · 1.496 [38.0] REF · .591 [15.0] REF SHIELDED AND ANTI-VIBRATION COUPLING NUT · SHIELD	**RSSX RJ45S 860-*M**	X-code/RJ45 CAT 6$_A$ double ended, 8 poles, male (straight), shielded, IP67, 75˚C, 48V, 0.5A
RJ45 single 1.496 [38.0] REF · .591 [15.0] REF SHIELD	**RJ45S 860-*M**	RJ45 CAT 6$_A$ single ended, 8 poles, male (straight), shielded, IP20, 75˚C, 42V, 0.5A
RJ45 extension .591 [15.0] REF · 1.496 [38.0] REF · 1.496 [38.0] REF · .591 [15.0] REF SHIELD · SHIELD	**RJ45S RJ45S 860-*M**	RJ45 CAT 6$_A$ double ended, 8 pole, male (straight), shielded, IP20, 75˚C, 42V, 0.5A

MALE END VIEW	RJ45S END VIEW
8 7 / 1 6 / 2 5 / 3 4	1 2 3 4 5 6 7 8
PAIR 1 — 1 = WHITE/ORANGE, 2 = ORANGE	PAIR — 1 = WHITE/ORANGE, 2 = ORANGE
PAIR 2 — 3 = WHITE/GREEN, 4 = GREEN	PAIR — 3 = WHITE/GREEN, 4 = BLUE, 5 = WHITE/BLUE, 6 = GREEN — PAIR
PAIR 3 — 5 = WHITE/BROWN, 6 = BROWN	
PAIR 4 — 7 = WHITE/BLUE, 8 = BLUE	PAIR — 7 = WHITE/BROWN, 8 = BROWN

Product Range

Housing Style	Part Number	Features	Pinouts
M12 Receptacle Leads 2.035 [51.7] PG 9 M12x1 LOCKNUT	FKSDX 860-*M	X-code CAT 6$_A$, 8 sockets, female shielded, IP67, 75°C, 48V, 0.5A, TPE Jacket	
M12 Receptacle PCB mount .118 [3.0] MAX PG 9 Ø.031 [0.8] .807 [20.5] M12x1 Ø.846 [21.5] .079 [2.0] .165 [4.2] Ø.748 [19.	FKFDKX 86-PCB	X-code CAT 6$_A$, 8 sockets, female PCB, IP67, 90°C, 48V, 0.5A	**Female** 7 8 6 1 5 2 4 3
M12 Field wireable 2.046 [52.0] Ø.660 [16.8] M12x1	CMBSX 8181-0	X-code CAT 6$_A$, 8 poles, male field, wireable, IDC, shielded, IP67, 85°C, 48V, 0.5A, 5-9.7mm cable OD	
M12 – RJ45 **Panel mount feed through straight** 1.788 [45.4] REF M16x1.5 .846 [21.5] REF M12x1 .945 [24.0] REF	FKSDX RJ45SF 86ST	X-code CAT 6A M12 to RJ45 feed through, IP67(M12), IP20(RJ), Shielded, 57VDC, 1A @ 40°C	**Male** 8 7 1 6 2 5 3 4
M12 – RJ45 **Panel mount feed through 90° Exit** 1.811 [46.0] M16x1.5 .848 [21.5] REF M12x1 .870 [22.1] REF	FKSDX RJ45SF 86	Xcode CAT 6A M12 to RJ45 feed through. 90° RJ45 exit, IP67(M12), IP20(RJ), Shielded, 57VDC, 1A @ 40°C	

Housing Style	Part Number	Features
RJ45 Field wireable .578 [14.7] REF 2.020 [51.3] REF .539 [13.7]	**Connector, FW, RJ45S 86 IDC CAT 6**	CAT 6 class E_A IDC RJ45 Field wireable, shielded, IP20, 70°C, 1A, 50VDC, 5.5-8.5mm cable OD
RJ45 Panel mount feed through Ø.878 [22.3] 1.413 [35.9] Ø1.098 [27.9]	**RJ45 PANEL MOUNT IP20**	CAT 6 class E_A RJ45 Panel mount feed through. Shielded, IP20, 1.5A, 125V
RJ45 Panel mount feed through with IP67 cap Ø.878 [22.3] 1.531 [38.9] REF Ø1.098 [27.9]	**RJ45 PANEL MOUNT W IP67 CAP**	CAT 6 class E_A RJ45 Panel mount feed through. Shielded, IP67, 1.5A, 125V