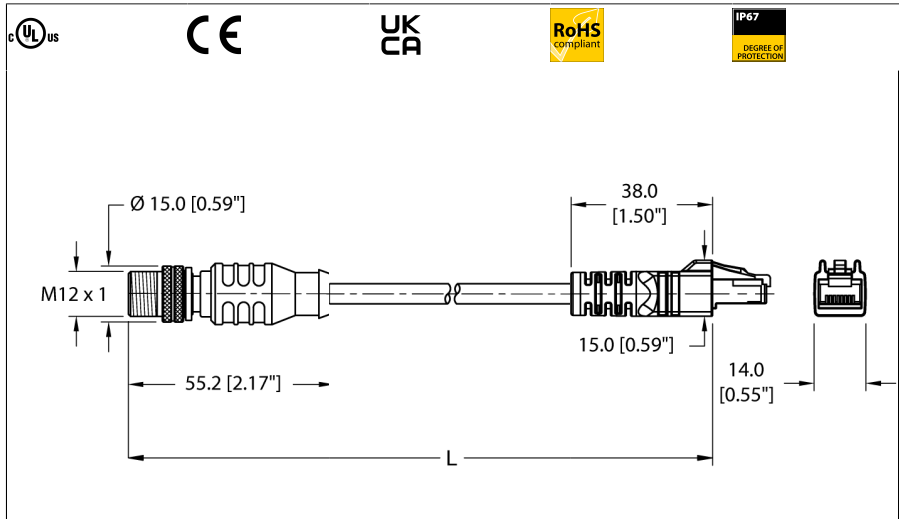


Industrial Ethernet Cable

Verbindungsleitung

RSSD RJ45S 441-2M



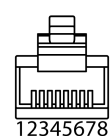
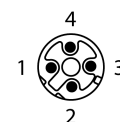
- M12 male connector, straight, 4-pin
- Shielding on coupling nut/retaining screw
- D-coded
- RJ45, Male, Straight, 8-pin, Shielded
- Industrial Ethernet cable
- Fieldbus type: Ethernet CAT5E, TPE jacket, turquoise, shielded, 2UTP × 24 AWG
- -40 °C cold bending strength
- Fire classes: UL 1685, UL 1061
- Flexlife and C-Track approved

Type	RSSD RJ45S 441-2M
ID	U3-00525

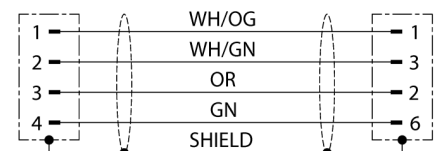
Connector A	Male, M12 × 1, Straight, D-coded
Number of pins	4
Contact carriers	Plastic, TPU, Black
Connector body	Plastic, TPU, Blue gray
Coupling nut/screw	Brass, CuZn, Nickel-plated
Tightening torque (range)	0.8 ... 1 Nm (observe max. torque of mating connector!)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3
Protection class	IP67

Connector B	Male, RJ45, Straight
Number of Pins	8
Contact carriers	Plastic, PC, Transparent
Connector body	Plastic, TPU, Black
Protection class	IP20
	NEMA: 1

Cable	
Cable ID	RF51211
Network protocol	Ethernet, 441
Number of cores	4
Cable diameter	Ø 6.73mm
Cable length	2 m m
Cable jacket	TPE, Teal
Shielding	Aluminum/polyester (OUT), 38 AWG, TC (tinned copper), 75% covered
Conductor material	TC (tinned copper)
Core colors	OG, WH/OG, GN, WH/GN



Circuit Diagram



Subassembly 1	
Description of assembly	UTP (unshielded twisted pair)
Number of pairs	2
Conductor diameter	0.048 "
Core insulation	HDPE
Core cross-section	2x24 AWG [Similar to 0.25 mm ²]
braid arrangement	7x32AWG

Electrical properties at +20 °C	
Rated voltage	42V
Rated voltage	30V _{AC} /42V _{DC}
Current	1.5AA

Mechanical and chemical properties	
Bending radius (stationary installation)	≥ 4 x Ø
Bending radius (flexible use)	≥ 10 x Ø
Bending radius (C-Track)	≥ 4 In.
Bending cycles (C-Track)	35 Million *
Torsional stress	± 270 °/m
Torsion cycles	Max. 3 million
Torsion speed	52 Cycles/min
Cold flexural strength	-40 °C
	When correctly installed at 20 °C, 50 % RH and a cycle speed of ≤ 0.5 cycles per second.
C-track	Yes
Ambient temperature (fixed)	-40...+80°C
Ambient temperature (mobile)	5...+80°C
Ambient temperature during installation	-10...+80 °C

Approval

Note	
	Using the cable in extreme temperatures, when it is exposed to certain chemicals and above the nominal cycle speed or below the nominal bending radius of the cable can reduce the flexural strength.
	- We reserve the right to make technical modifications without prior notice.