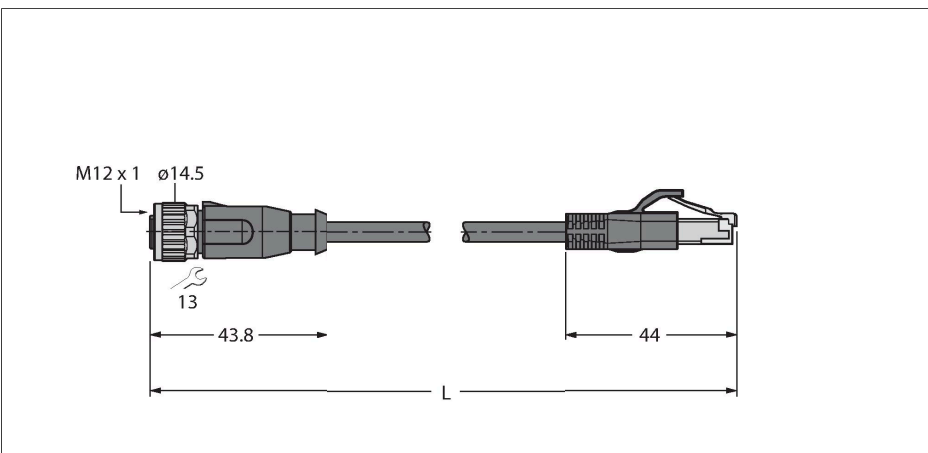


RKSD-RJ45S-4414-0.4M

Industrial Ethernet Cable – Extension Cable



Technical data

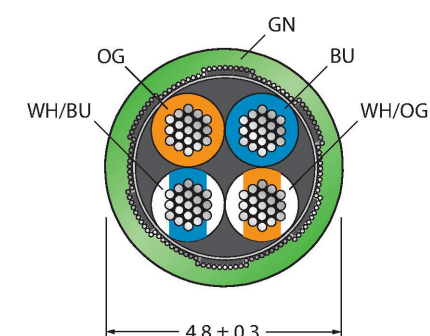
Type	RKSD-RJ45S-4414-0.4M
ID	6441437
Connector A	Female, M12 × 1, Straight, D-coded
Number of pins	4
Contacts	Metal, CuZn, Gold-plated
Contact carriers	Plastic, PA UL94-V0, Black
Connector body	Plastic, TPU, UL 94, Black
Coupling nut/screw	Brass, GD-Zn, Nickel-plated
Seal	Plastic, FPM/FKM
Tightening torque (range)	0.4 ... 0.6 Nm (observe max. torque of mating connector!)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3/2
Protection class	IP67, IP69K, Only in screwed condition
Connector B	Male, RJ45, Straight
Number of Pins	4
Contacts	Metal, CuZn, Gold-plated
Contact carriers	Plastic, PC
Connector body	Plastic, TPU, UL 94
Mechanical life	> 100 Mating cycles
Pollution degree	3/2
Protection class	IP20
Cable	
Network protocol	Ethernet, 4414
Cable diameter	Ø 4.8 mm ±0.30
Cable length	0.4 m
Cable jacket	PUR, Green

Features

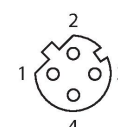


- Ethernet cable: 4-pin, AWG 26
- CAT 5E acc. to ISO/IEC 11801, EN 50173, EIA/TIA 568-A
- Jacket material: PUR
- Jacket color: green
- Shielding: aluminum-laminated polyester film, copper braid
- Jacket diameter: 4.8 mm
- Suitable for drag chain use
- UV resistant
- Oil resistant acc. to IEC 60811-2-1 and DIN VDE 0282 part 10
- Free from silicone, PVC and LABS
- Free from halogen acc. to IEC 60754-2
- Flame retardant acc. to IEC 60332-1-2
- Approval: cULus
- RoHS compliant
- Protection class IP67
- RJ45 male connector, straight, 4-pin
- M12 female connector, straight, D-coded
- Cable length: 0.4 m

Cable Cross-Section



Contact assignment



- 1 = WH/OG (TX +)
- 2 = OG (TX -)
- 3 = WH/BU (RX +)
- 4 = n.c.
- 5 = n.c.
- 6 = BU (RX -)
- 7 = n.c.
- 8 = n.c.

Technical data

Shielding	Aluminum foil, tinned copper wire
Core insulation	PP
Core cross-section	4 x 0.15 mm²
Arrangement of strands	19 x 0.102 mm
Core colors	WHOG, WHBU, BU, OG
Electrical properties at +20 °C	
Rated voltage	42 V
Test voltage	700 V
Current	3 A
Nom. impedance	100 Ω (1MHZ)
Nom. capacitance	51 pF/m
Mechanical and chemical properties	
Bending radius (stationary installation)	≥ 15 x Ø
Bending cycles	≥ 5 million
Torsional stress	± 30 °/m
Torsion cycles	Max. 100,000
Ambient temperature (fixed)	-40...+80 °C
Ambient temperature (mobile)	-25...+80 °C
Other Features	
Qualified for drag chain use	yes
Halogen-free	yes
Silicone-free	yes
PVC-free	yes
Resistant to weld splatter	yes
Resistant to chemicals	yes
UV resistance	yes
Oil-resistant	yes
Flame-retardant	yes
Approvals	cULus

Circuit Diagram

