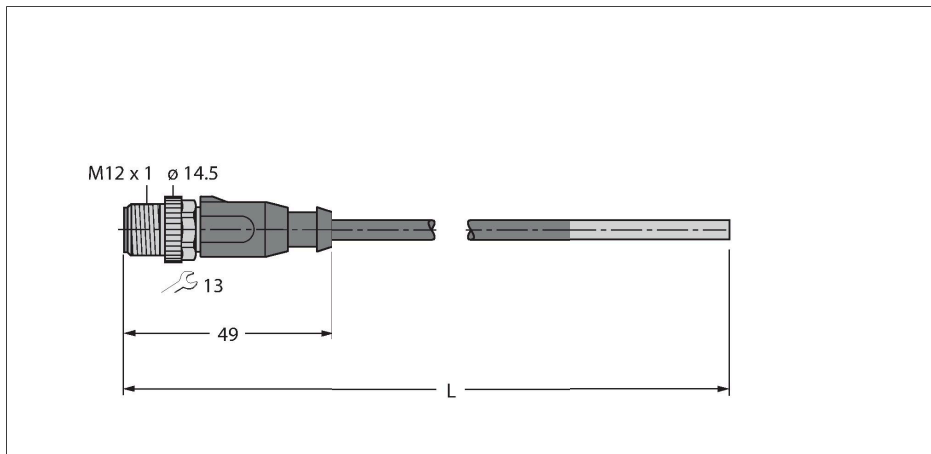


# RSSD-4416-50M

## Industrial Ethernet/PROFINET Cable – Connection Cable



### Technical data

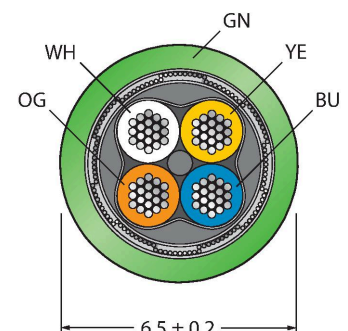
Type	RSSD-4416-50M
ID	6441627
Connector A	Male, M12 × 1, Straight, D-coded
Number of Pins	4
Contacts	Metal, CuZn, Gold-plated
Contact carriers	Plastic, PA, UL 94, Black
Connector body	Plastic, TPU, UL 94, Black
Coupling nut/screw	Brass, GD-Zn, Nickel-plated
Tightening torque (range)	0.4 ... 0.6 Nm (observe max. torque of mating connector!)
Mechanical lifespan	> 100 Mating cycles
Pollution degree	3/2
Protection class	IP67, Only in screwed condition
Cable	
Network protocol	Ethernet
Cable diameter	Ø 6.5 mm ±0.20
Cable length	50 m
Cable jacket	PUR, Green
Shielding	Aluminum foil, tinned copper wire
Core insulation	PE
Core cross-section	4 x 0.32 mm <sup>2</sup>
Arrangement of strands	7 x 0.25 mm
Core colors	WH, YE, BU, OG
Electrical properties at +20 °C	
Test voltage	2000 V
Current	3 A
DC resistance (loop)	120 Ω/km

### Features



- M12 male connector, straight, D-coded
- End open
- Ethernet cable: 4-pin, AWG 22
- CAT 5E
- Jacket material: PUR
- Jacket color: green
- Shielding: overlapping aluminum foil, tinned copper wire
- Jacket diameter: 6.5 mm
- Suitable for drag chain use
- Oil resistant acc. to IEC 60811-2-1 and UL13
- Halogen free acc. to IEC 60754
- Flame retardant acc. to IEC 60332-1-2 and UL2556 VW1
- Approval: UL
- RoHS compliant
- PNO compliant
- Cable length: 50 m

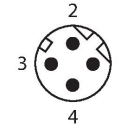
### Cable Cross-Section



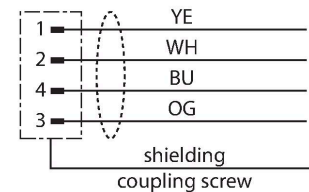
## Technical data

Nom. impedance	100 Ω (1MHZ)
Nom. capacitance	50 pF/m
<b>Mechanical and chemical properties</b>	
Bending radius (stationary installation)	≥ 5 x Ø
Bending radius (flexible use)	≥ 8 x Ø
Bending cycles	≥ 3 million
Torsional stress	± 180 °/m
Torsion cycles	≤ 100,000 Cycles
Ambient temperature range (stationary)	-50...+70 °C
Ambient temperature range (In motion)	-20...+60 °C
<b>Other Features</b>	
Qualified for drag chain use	yes
Halogen-free	yes
PVC-free	yes
UV resistance	yes
Oil-resistant	yes
Flame-retardant	yes
Approvals	UL Listed

## Contact assignment



## Circuit Diagram

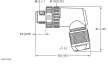
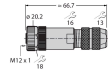
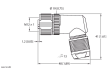
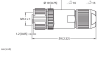
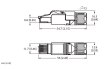


## Accessories

TORQUE-WRENCH-SET-BUS	6936171
Torque wrench set; grip with adjustable torque 0.4 to 1.0 Nm; torque wrench set, fork wrench for M8 (SW9), fork wrench for M12 (SW13), fork wrench for M12 (SW14)	

## Accessories

Dimension drawing	Type	ID	
	FW-M12ST5D-G-SB-ME-SH-8	6604218	Field-wireable male connector, M12 × 1, straight, 4-pin, screw terminal connection, cable feedthrough 5.0 to 8 mm, core cross-section/terminal capacity 0.14 to 0.75 mm <sup>2</sup> , metal housing, metal coupling nut, shieldable, D-coded, for Ethernet
	CMBSD8141-0/PG9	6604282	Field-wireable male connector, M12 × 1, straight, 4-pin, screw terminal connection, cable feedthrough 6.0 to 8 mm, core cross-section/terminal capacity 0.14 to 0.75 mm <sup>2</sup> , metal housing, metal nut, shieldable, D-coded, for Ethernet
	CMBSD8241-0/PG9	6604239	Field-wireable male connector, M12 × 1, angled, 4-pin, screw terminal connection, cable feedthrough 6.0 to 8 mm, core cross-section/terminal capacity 0.14 to 0.75 mm <sup>2</sup> , metal housing, metal nut, shieldable, D-coded, for Ethernet
	FW-ERSSM0426-FD-P-0408	100033307	Field-wireable male connector, M12 × 1, straight, 4-pin, shieldable,

Dimension drawing	Type	ID	
			D-coded, push-in connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm <sup>2</sup> , metal housing, metal coupling nut; PROFINET CAT5 (100 Mbps)
	FW-EWSSM0426-FD-P-0408	100033310	Field-wireable male connector, M12 × 1, angled, 4-pin, shieldable, D-coded, push-in connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm <sup>2</sup> , metal housing, metal coupling nut; PROFINET CAT5 (100 Mbps)
			
	FW-M12KU5D-G-SB-ME-SH-8	6604219	Field-wireable female connector, M12 × 1, straight, 4-pin, screw terminal connection, cable feedthrough 5.0 to 8 mm, core cross-section/terminal capacity 0.14 to 0.75 mm <sup>2</sup> , metal housing, metal nut, shieldable, D-coded, for Ethernet
			
	FW-EWKSM0426-FD-P-0408	100033308	Field-wireable female connector, M12 × 1, angled, 4-pin, shieldable, D-coded, push-in connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm <sup>2</sup> , metal housing, metal coupling nut; PROFINET CAT5 (100 Mbit/s)
			
	FW-ERKSM0426-FD-P-0408	100033304	Field-wireable female connector, M12 × 1, straight, 4-pin, shieldable, D-coded, push-in connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm <sup>2</sup> , metal housing, metal coupling nut; PROFINET CAT5 (100 Mbit/s)
			
	FW-RRSSP0822-IE-I-0510	100034569	Field-wireable male connector, RJ45, straight, 8-pin, IDC connection, cable feedthrough 5.5 mm to 10.0 mm, core cross-section/terminal capacity 0.14 mm <sup>2</sup> to 0.34 mm <sup>2</sup> , metal housing; CAT6A (10 Gigabit Ethernet acc. to IEEE 802.3an)
			
	FW-RWSSP0822-IE-I-0510	100034570	Field-wireable male connector, RJ45, angled, 8-pin, IDC connection, cable feedthrough 5.5 mm to 10.0 mm, core cross-section/terminal capacity 0.14 mm <sup>2</sup> to 0.34 mm <sup>2</sup> , metal housing; CAT6A (10 Gigabit Ethernet acc. to IEEE 802.3an)
