



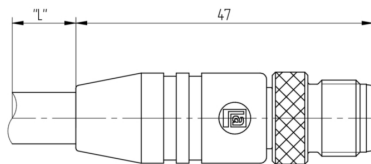
Product: [RSTS 8X-S478](#)

Gigabit Ethernet Cat7 Data Single-Ended Cordset: M12 Standard, male, straight, 8-pin, X-coded, shielded, black body, 50 V AC / 60 V DC, 0.5 A; TPE Teal cable, 8-wires, 4x2x0.14 mm²

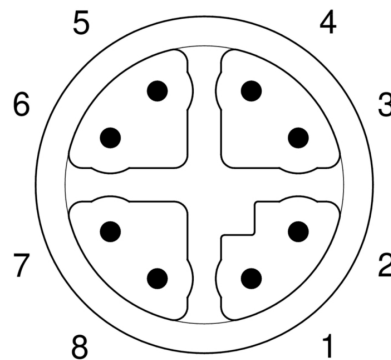
Product Description

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Technical Drawing



Male



Technical Specifications

Face View

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
white (orange)	orange	white (green)	green	white (brown)	brown	white (blue)	blue

Technical Data

Product Family:	Data Connectors
Side 1 Product Sub Family:	M12 Standard
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Side 1 Type of Contact/Gender:	Male
Connector Design:	Straight
Number of Pins:	8
Coding, Side 1:	X
Shielding Type:	Shielded
Attachment Type:	Coupling Screw
Voltage Rating:	60 V
Rated Impulse Voltage:	0.8 kV
Operating Voltage:	50 V AC / 60 V DC
Current Rating:	0.5 A
Data Transmission Type:	Gigabit Ethernet Cat7
Data Transmission Rate:	10 Gbit/s

Side 1 Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 ⁹ Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 80 °C
Protection Degree / IP Rating**:	IP65, IP67
Side 1 Design Standard:	IEC 61076-2-109
Side 1 Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	II acc. to DIN EN 60664-1 (VDE 0110-1)

Materials

Contact Base Material:	CuZn
Side 1 Contact Plating:	Cu/Au
Contact Bearer Material:	PA
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	PA
Molded Body Color:	Black
Flammability Class (Molded Body):	UL 94 V-0
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
Shielding Material:	GD-Zn, nickel-plated

Additional Technical Data

Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
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Cable Data

Cable Number:	S478
Conductor Size:	4x2x0.14 mm ²
Number of Wires:	8
Minimal Bending Radius (Fixed Inst):	> 30 mm
Minimal Bending Radius (Flexible Inst):	> 65 mm
Welding Resistance:	spark weld resistant
Conductor Material:	Stranded PACW
Cable Jacket Material:	TPE
Cable Jacket Color:	Teal
Cable Diameter D:	ø 6.8 ± 0.2 mm
Wire Insulation Material:	PE
Insulated Wire Diameter:	ø 1.05 mm
Overall Shield (Cable):	Cu-ETP1 tinned
Foil shield:	Al-PT Foil
Ambient Temperature (Fixed Installation):	- 40 °C - + 80 °C
Ambient Temperature (Flex Installation):	-15 °C - + 60 °C
Flammability Class (Cable Jacket):	IEC 60332-1-2
Cable Characteristics:	Exclusion of dangerous materials
Core Colors:	Twisted pairs: white & blue, white & orange, white & green, white & brown

Safety & Environmental Compliance

RoHS Compliant:	yes
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Resistances

Oil Resistance:	IEC 60811-2-1
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Notes

Note Derating:	Notice derating
Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
Note:	Do not connect or disconnect under load.

Variants

Item #	Item Description	Cable Length
20122	RSTS 8X-S478/1 M	1 m
20125	RSTS 8X-S478/3 M	3 m
20127	RSTS 8X-S478/10 M	10 m

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