

Product: [SM12M-MAS08X-0478](#)

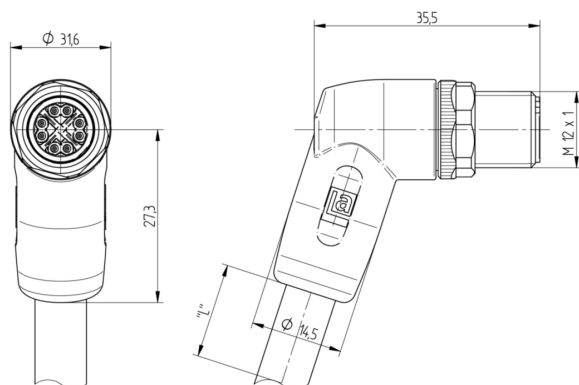


Gigabit Ethernet Cat7 Data Single-Ended Cordset: M12 Screw Standard, male, angled, 8-pin, X-coded, shielded

Product Description

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

Technical Drawing



Technical Specifications

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:	angled
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
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
Protection Degree / IP Rating**:	IP65, IP67

Side 1 Design Standard:	IEC 61076-2-109/-010
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

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:	TPU
Molded Body Color:	Black
Flammability Class (Molded Body):	UL 94 V-0
Attachment Material:	CuZn
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:	478
Conductor Size:	4x2x0.14 mm²
Number of Wires:	8
Cycles (Torsion):	-
Conductor Material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	black
Cable Diameter D:	ø 6.80 ± 0.30 mm
Wire Insulation Material:	PE
Insulated Wire Diameter:	ø 1.05 ± 0.05 mm
Overall Shield (Cable):	Cu-ETP1 tinned
Foil shield:	Al-PT Foil
Ambient Temperature (Fixed Installation):	- 40 °C - + 80 °C
Ambient Temperature (Flex Installation):	0 °C - +50 °C
Ambient Temperature (Drag Chain Inst):	-
UL Cable Type:	AWM: 21327
Flammability Class (Cable Jacket):	FT-2
Cable Characteristics:	-
Core Colors:	Twisted pairs: white & blue, white & orange, white & green, white & brown

Approvals

UL-File:	pending
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Safety & Environmental Compliance

RoHS Compliant:	yes
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Resistances

Halogenfree:	IEC 60754-1
Oil Resistance:	IEC 60811-2-1

Notes

Note Derating:	* Notice derating
Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.

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