

Product: [SM12M-MAS78X-SM12M-MAS78X-0478](#)

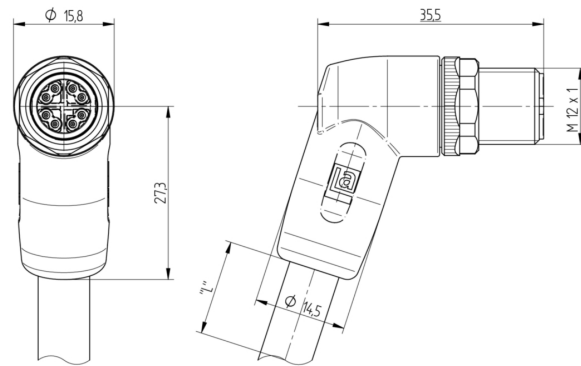
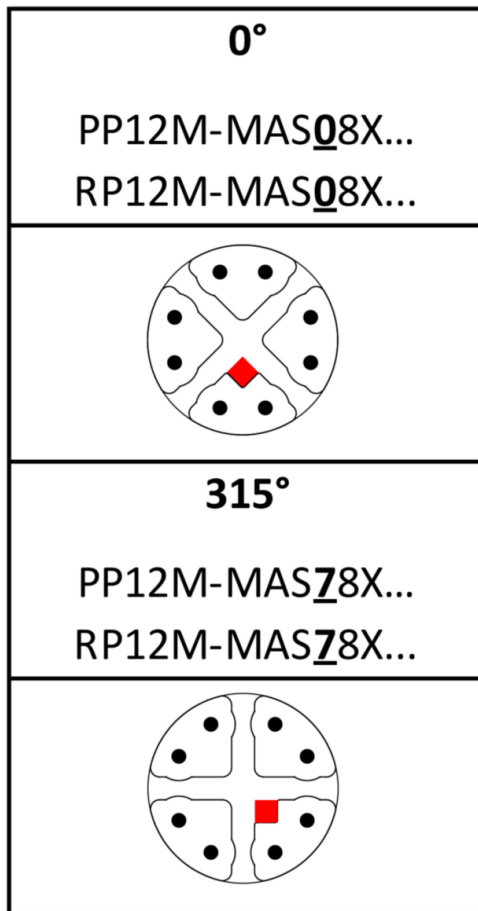


Gigabit Ethernet Cat7 Data Double-Ended Cordset: M12 Screw Standard, male, angled, 8-pin, X-coded, shielded

Product Description

Gigabit Ethernet Cat7 Data Double-Ended Cordset: M12 Screw Standard, male, angled, 8-pin, X-coded, shielded, black body to 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

Product Description

Product Family:	Data Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding Type:	Shielded
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

Technical Data Side 1

Side 1 Product Sub Family:	M12 Standard
Side 1 Type of Contact/Gender:	Male
Connector Design:	angled
Attachment Type:	Coupling Screw
Number of Pins:	8
Coding, Side 1:	X
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)
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
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight

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

Technical Data Side 2

Side 2 Type of Contact/Gender:	Male
Connector Design, Side 2:	angled
Attachment Type, Side 2:	Coupling Screw
Number of Pins, Side 2:	8
Coding, Side 2:	X

Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10 ⁹ Ohm
Mating Cycles, Side 2:	≤ 100
Protection Degree / IP Rating, Side 2**:	IP65, IP67
Design Standard, Side 2:	IEC 61076-2-109/-010
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category, Side 2:	II acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	CuZn
Contact Plating, Side 2:	Cu/Au
Contact Bearer Material, Side 2:	PA
Contact Bearer Color, Side 2:	Black
Flammability Class (Contact Bearer), Side 2:	UL 94 V-0
Molded Body Material, Side 2:	TPU
Molded Body Color, Side 2:	Black
Flammability Class (Molded Body), Side 2:	UL 94 V-0
Attachment Material, Side 2:	CuZn
Shielding Material, Side 2:	GD-Zn, nickel-plated
Fastening Torque (Attachment), Side 2:	M 12x1: (50-60) Ncm, hand-tight

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

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

History

Update and Revision:	Revision Number: 0.4 Revision Date: 07-14-2026
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Variants

Item #	Item Description	Cable Length
935311401	SM12M-MAS78X-SM12M-MAS78X-0478-0100	1 m
935311402	SM12M-MAS78X-SM12M-MAS78X-0478-0200	2 m
935311403	SM12M-MAS78X-SM12M-MAS78X-0478-0300	3 m
935311404	SM12M-MAS78X-SM12M-MAS78X-0478-0500	5 m

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