lumbergautomation
A BELDEN BRAND

Product: PP12M-MSSV8X-0478

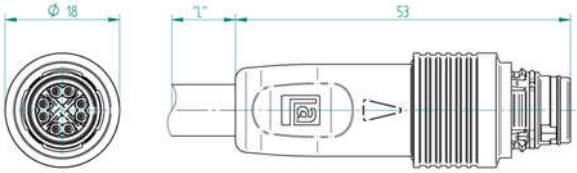


M12 pigtail, Push Pull, Industrial CAT 7, PUR black cable, shielded, male, straight, X-coded, 8-Pin, 4x2x0.14mm², twisted pairs, PoE+

Product Description

M12 pigtail, Push Pull acc. to IEC 61076-2-010, Industrial CAT 7, PUR black cable, shielded, male, straight, X-coded acc. to IEC 61076-2-109, 8-Pin, 4x2x0.14mm², twisted pairs, PoE+, 10GBASE-T, 50 V AC / 60 V DC, 0.5 A, - 40 °C - + 80 °C (operating temp.), IP65, IP67, cULus, UL1863

Technical Drawing



Technical Specifications

Technical Data

Product Family:	Data Connectors
Product Sub Family:	M12 Standard push pull
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Type of Contact / Gender:	Male
Connector Design:	Straight
Number of Pins:	8
Coding:	X
Shielding:	Shielded
Attachment Type:	Snap Ring
Rated Voltage:	60 V
Rated Voltage (UL):	50 V AC / 60 V DC
Rated Impulse Voltage:	0.8 kV
Operating Voltage:	50 V AC / 60 V DC
Rated Current*:	0.5 A
Rated Current (UL)*:	0.5 A
Data Transmission:	Gigabit Ethernet Cat7
Data Transmission Rate:	10 Gbit/s
Contact Resistance:	≤ 10 mOhm

Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 85 °C
Operating Temperature (UL):	max. 80 °C
Protection Degree / IP Rating**:	IP65, IP67
Design Standard:	IEC 61076-2-109/-010
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
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:	PA
Attachment Plating:	Not Available
Shielding Material:	GD-Zn, nickel-plated

Additional Technical Data

Fastening Torque (Attachment):	PushPull

Cable Data

Cable Number:	478
Conductor Size:	4x2x0.14 mm²
Number of Wires:	8
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 200.000
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
UL Cable Type:	AWM: 21327
Flammability Class (Cable Jacket):	FT-2
Core Colors:	Twisted pairs: white & blue, white & orange, white & green, white & brown

Approvals

UL-File:	pending
UL:	UL 2238; cULus (pending)

Safety & Environmental Compliance

RoHS Compliant:	yes

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.

Variants

Item #	Item Description
935300004	PP12M-MSSV8X-0478-0500
935300003	PP12M-MSSV8X-0478-0300
935300002	PP12M-MSSV8X-0478-0200
935300001	PP12M-MSSV8X-0478-0100

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