lumbergautomation
A BELDEN BRAND



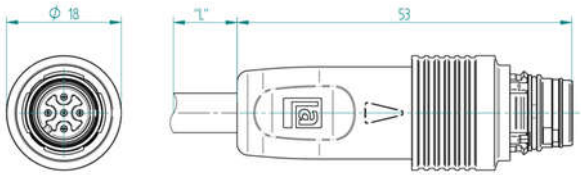
Product: PP12M-MSSV5A-0253

M12 pigtail, Push Pull, CANopen/DevicerNet cable, PUR black cable, shielded, male, straight, D-coded, 4-Pin + Shield Pin, Data: 2x0.25 mm² + Power: 2x0.34 mm²

Product Description

M12 pigtail, Push Pull, CANopen/DevicerNet cable, PUR black cable, shielded, male, straight, D-coded, 4-Pin + Shield Pin, Data: 2x0.25 mm² + Power: 2x0.34 mm²50 V AC / 60 V DC, 4 A, - 40 °C - + 80 °C (operating temp.), IP65, IP67, DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2, UL VW-1, CSA FT-1, exclusion of dangerous materials, line construction acc. CAN-Bus and DeviceNET specification

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:	5
Coding:	A
Shielding:	Shielded
Attachment Type:	Snap Ring
Rated Voltage:	60 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	50 V AC / 60 V DC
Rated Current*:	4 A
Data Transmission:	CANopen / DeviceNet
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100

Ambient Temperature (Operation)*:	- 40 °C - + 85 °C
Protection Degree / IP Rating**:	IP65, IP67
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)

Materials

Contact Base Material:	CuSn
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 HB
Attachment Material:	PA
Shielding Material:	GD-Zn, nickel-plated

Additional Technical Data

Fastening Torque (Attachment):	PushPull

Cable Data

Cable Number:	253
Conductor Size:	Data: 2x0.25 mm² + Power: 2x0.34 mm²
Number of Wires:	4
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Conductor material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	black
Cable Diameter D:	ø 6.70 ± 0.20 mm
Wire Insulation Material:	Data: PE + Power: PE or PP
Insulated Wire Diameter:	Data: ø 2.05 ± 0.10 mm + Power: ø 1.40 ± 0.05 mm
Overall Shield (Cable):	Cu-ETP1 tinned
Ambient Temperature (Fixed Installation):	- 50 °C - + 80 °C
Ambient Temperature (Flex Installation):	- 25 °C - + 80 °C
Ambient Temperature (Drag Chain Inst):	- 25 °C - + 60 °C
UL Cable Type:	AWM: 20549 or 21198
Flammability Class (Cable Jacket):	DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2, UL VW-1, CSA FT-1
Cable Characteristics:	Free of lacquer wetting disturbing substances, Exclusion of silicone, Coldness flexibilty
Core Colors:	Data pair: blue, white; Power pair: red, black

Safety & Environmental Compliance

RoHS Compliant:	yes

Resistances

Halogenfree:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1
Oil Resistance:	Yes

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
935301020	PP12M-MSSV5A-0253-0500
935301019	PP12M-MSSV5A-0253-0300
935301018	PP12M-MSSV5A-0253-0200
935301017	PP12M-MSSV5A-0253-0100

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