

**Product:** [RP12M-MSSV8X-RP12M-MSSV8X-0552](#) 

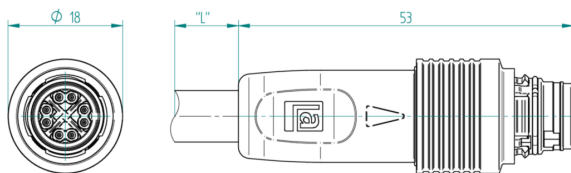


M12 cordset, Push Pull, Rolling Stock, CAT 7, EN45545, X-FRNC/LSNH blue cable, shielded, male, straight, X-coded, 8-Pin, 4x2x0.25mm<sup>2</sup>, twisted pairs, PoE+

### Product Description

M12 cordset, Push Pull (IEC 61076-2-010), Rolling Stock, CAT 7, EN45545, X-FRNC/LSNH blue cable, shielded, male to male, straight to straight, X-coded, 8-Pin, 4x2x0.25mm<sup>2</sup>, twisted pairs, PoE+, 10GBASE-T, 50 V AC / 60 V DC, 0.5 A, - 40 °C - + 85 °C (operating temp.), IP65, IP67

### Technical Drawing



### Technical Specifications

#### Product Description

Product Family:	Data Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Shielded
Rated Voltage:	60 V
Rated Impulse Voltage:	0.8 kV
Operating Voltage:	50 V AC / 60 V DC
Rated Current*:	0.5 A
Data Transmission:	Gigabit Ethernet Cat7
Data Transmission Rate:	10 Gbit/s

#### Technical Data Side 1

Product Sub Family:	M12 Railway push pull
Type of Contact / Gender:	Male
Connector Design:	Straight
Attachment Type:	Snap Ring
Number of Pins:	8
Coding:	X
Contact Resistance:	≤ 10 mOhm

Insulation Resistance:	> 10 <sup>9</sup> Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 85 °C
Protection Degree / IP Rating**:	IP65, IP67
Design Standard:	IEC 61076-2-109/-010, DIN EN 50467
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	II acc. to DIN EN 60664-1 (VDE 0110-1)
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
Shielding Material:	GD-Zn, nickel-plated
Fastening Torque (Attachment):	PushPull

## Cable Data

Cable Number:	552
Conductor Size:	4x2x0.25 mm <sup>2</sup>
Number of Wires:	8
Minimal Bending Radius (Fixed Inst):	> 4 x D
Conductor material:	Cu
Cable Jacket Material:	X-FRNC/LSNH
Cable Jacket Color:	blue
Cable Diameter D:	ø 8.1 ± 0.3 mm
Wire Insulation Material:	E-beam X-linked Foam-skin polyethylene
Insulated Wire Diameter:	max. ø 1.60 mm
Overall Shield (Cable):	Cu-ETP1 tinned
Foil shield:	AL-polyester foil
Ambient Temperature (Fixed Installation):	- 40 °C - + 90 °C
Ambient Temperature (Flex Installation):	-5 °C - + 50 °C
Flammability Class (Cable Jacket):	IEC 60332-1-2, EN 50305 (9.1.1), IEC 60332-3-25, DIN 5510-2 protection level 1 to 4, EN 45545-2: HL1-HL3
Core Colors:	Twisted pairs: white & blue, white & orange, white & green, white & brown

## Technical Data Side 2

Product Sub Family, Side 2:	M12 Railway push pull
Type of Contact / Gender, Side 2:	Male
Connector Design, Side 2:	Straight
Attachment Type, Side 2:	Snap Ring
Number of Pins, Side 2:	8
Coding, Side 2:	X
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10 <sup>9</sup> 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 V0
Molded Body Material, Side 2:	PA

Molded Body Color, Side 2:	Black
Flammability Class (Molded Body), Side 2:	UL 94 V0
Attachment Material, Side 2:	PA
Shielding Material, Side 2:	GD-Zn, nickel-plated
Fastening Torque (Attachment), Side 2:	PushPull

## Safety & Environmental Compliance

RoHS Compliant:	yes
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## Resistances

Halogenfree:	IEC 60754-1, EN 50267-1-2
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: 0.11 Revision Date: 09-19-2024
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## Variants

Item #	Item Description
935300408	RP12M-MSSV8X-RP12M-MSSV8X-0552-0500
935300407	RP12M-MSSV8X-RP12M-MSSV8X-0552-0300
935300406	RP12M-MSSV8X-RP12M-MSSV8X-0552-0200
935300405	RP12M-MSSV8X-RP12M-MSSV8X-0552-0100

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