lumbergautomation
A BELDEN BRAND

# Product: RP12M-MSSV8X-0552

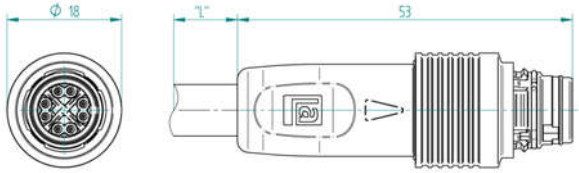


M12 pigtail, Push Pull, Rolling Stock, CAT 7, EN45545, X-FRNC/LSNH blue cable, shielded, male, straight, X-coded, 8-Pin, 4x2x0.25mm², twisted pairs, PoE+

## Product Description

M12 pigtail, Push Pull acc. IEC 61076-2-010, Rolling Stock, CAT 7, EN45545, X-FRNC/LSNH blue cable, shielded, male, straight, X-coded, 8-Pin, 4x2x0.25mm², 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

### Technical Data

| | |
|---|---|
| Product Family: | Data Connectors |
| Product Sub Family: | M12 Railway 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 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 |
| 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 |
| 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) |

## 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: | 552 |
| Conductor Size: | 4x2x0.25 mm² |
| 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 |

## Safety & Environmental Compliance

| | |
|---|---|
| RoHS Compliant: | yes |

## Resistances

| | |
|---|---|
| Halogenfree: | IEC 60754-1, EN 50267-1-2 |
| 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 |
|---|---|
| 935300008 | RP12M-MSSV8X-0552-0500 |
| 935300007 | RP12M-MSSV8X-0552-0300 |
| 935300006 | RP12M-MSSV8X-0552-0200 |
| 935300005 | RP12M-MSSV8X-0552-0100 |

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