

**Product:** [RM12M-MAS08X-0552](#) 

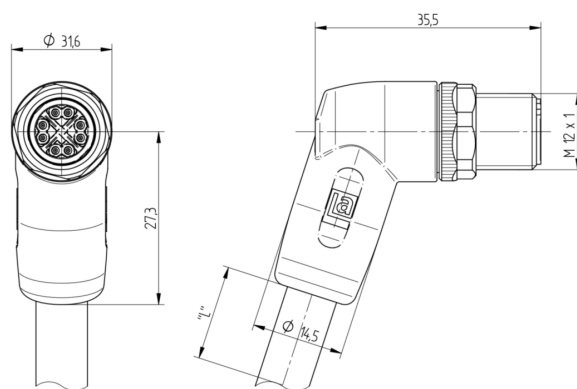
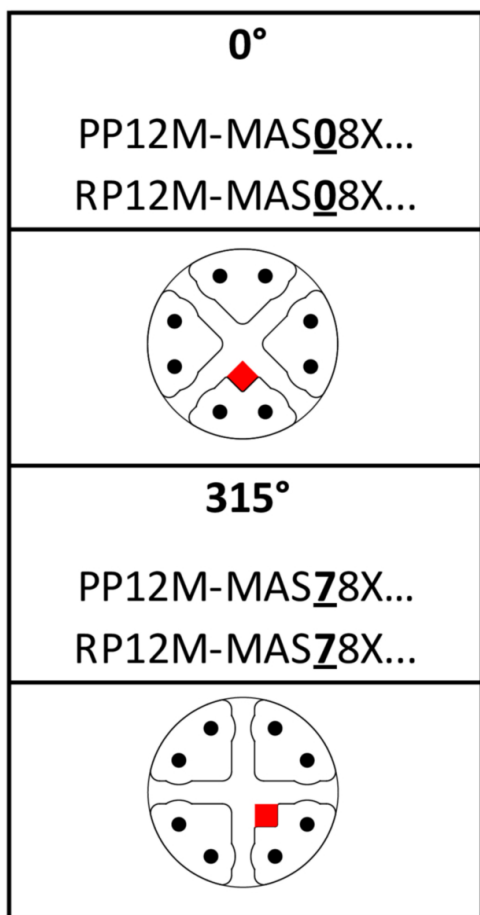


Gigabit Ethernet Cat7 Data Single-Ended Cordset: M12 Screw Railway, male, angled, 8-pin, X-coded, shielded

### Product Description

Gigabit Ethernet Cat7 Data Single-Ended Cordset: M12 Screw Railway, male, angled, 8-pin, X-coded, shielded, black body, 50 V AC / 60 V DC, 0.5 A; X-FRNC/LSNH blue cable, 8-wires, 4x2x0.25 mm<sup>2</sup>

### Technical Drawing



### Technical Specifications

#### Technical Data

|                                |                       |
|--------------------------------|-----------------------|
| Product Family:                | Data Connectors       |
| Side 1 Product Sub Family:     | M12 Railway           |
| Brand:                         | Lumberg Automation    |
| Connector Type:                | Cordset, single ended |
| Side 1 Type of Contact/Gender: | Male                  |

|                                  |                                        |
|----------------------------------|----------------------------------------|
| Connector Design:                | angled                                 |
| Number of Pins:                  | 8                                      |
| Coding, Side 1:                  | X                                      |
| Shielding Type:                  | Shielded                               |
| Attachment Type:                 | Coupling Screw                         |
| 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                              |
| Side 1 Contact Resistance:       | ≤ 10 mOhm                              |
| Insulation Resistance:           | > 10^9 Ohm                             |
| Mating Cycles:                   | ≤ 100                                  |
| Protection Degree / IP Rating**: | IP65, IP67                             |
| 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) |

Materials

|                                      |                      |
|--------------------------------------|----------------------|
| 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 |

Additional Technical Data

|                                |                                 |
|--------------------------------|---------------------------------|
| Fastening Torque (Attachment): | M 12x1: (50-60) Ncm, hand-tight |
|--------------------------------|---------------------------------|

Cable Data

|                                           |                                                                                                          |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Cable Number:                             | 552                                                                                                      |
| Conductor Size:                           | 4x2x0.25 mm²                                                                                             |
| Number of Wires:                          | 8                                                                                                        |
| Cycles (Bending):                         | -                                                                                                        |
| Cycles (Torsion):                         | -                                                                                                        |
| 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                                                                                          |
| Ambient Temperature (Drag Chain Inst):    | -                                                                                                        |
| UL Cable Type:                            | -                                                                                                        |
| 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 |
| Cable Characteristics:                    | -                                                                                                        |
| Core Colors:                              | Twisted pairs: white & blue, white & orange, white & green, white & brown                                |

Approvals

|          |   |
|----------|---|
| UL-File: | - |
|----------|---|

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. |

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