



M12 X-CODED RIGHT ANGLE

Extremely ruggedized M12 connectors for field assembly for railway industry, provides 10Gb/s data speeds in a right angle connector that safely and reliably supports communication in harsh environments.

BENEFIT STATEMENTS

- Extremely low height (42.5mm) when mated allows for usage of the right angle connector in confined spaces providing space savings
- Jacket crimp system reduces cable breakage and thereby reduces the cost of service
- Pre assembled components and jacket crimping allow for up to 30% faster assembly time.

KEY FEATURES

- Compact dimensions
- Quick and simple assembly
- IP67 waterproof
- Screw machined crimp contacts
- Flexible cable exit options (8 positions at 45° increments)
- 360° EMI/RFI shielding by extra rugged, crimped strain relief
- Vibration and torsion proof, crimped strain relief

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APPLICATIONS

- Onboard Ethernet networks that connect i.e.:
 - Passenger information systems
 - Passenger entertainment systems
 - Surveillance systems
 - Onboard Wi-Fi networks

ELECTRICAL SPECIFICATIONS

- Data transmission rate up to 10Gb/s
- Acc. IEC802.3an cat 6a
- Current rating 0.5A
- Nominal voltage 48V
- Contact resistance <math><5m\Omega</math>
- Insulation resistance $\geq 100M\Omega$

MECHANICAL SPECIFICATIONS

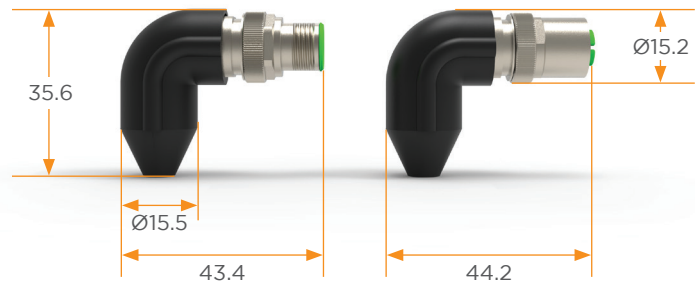
- Durability 250 cycles
- Temp rating with booth: -40°C to 70°C
- Temp rating w/o booth: -40°C to 85°C
- IP Protection: IP67
- Conductor size: AWG22-26

MATERIAL SPECIFICATIONS

- Housing: Cu Alloy Ni plated
- Crimp contacts: Cu Alloy Au plated
- Contact holder: Thermoplast
- O-Ring seals: Elastomer
- Grip Booth: TPE

STANDARDS & SPECIFICATIONS

- Connector according to IEC 61076-2-109
- Vibration tested acc EN 61373 Category 1, class B
- Fire and smoke 45545-2 HL23, R22/R23



Dimensions in mm

PARTS LIST

| Picture | Part number | Description | Coding | Number of positions | Gender | Applicable on cable | Manufacturer Partnumber | Speed | | |
|---------|-------------|---|--------|---------------------|--------|---------------------|-------------------------|---------------------|--------------|-------|
| | 2350791-1 | M12 X8M right angle for H&S Radox cat 7 | X | 8 | Male | Radox 8.2mm | H&S 84124806 | Cat 7 | | |
| | 2350791-2 | M12 X8M right angle for TE cat 7 | | | | TE cat 7 TECC0011C7 | TE 2297799-1 | Cat 7 | | |
| | 2350797-1 | M12 X8F right angle for H&S Radox cat 7 | | | X | 8 | Female | Radox 8.2mm | H&S 84124806 | Cat 7 |
| | 2350797-2 | M12 X8F right angle for TE cat 7 | | | | | | TE cat 7 TECC0011C7 | TE 2297799-1 | Cat 7 |

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