

**M12 male 90° / male 90° shielded X-cod. Gigabit**

TPE 4x2x26AWG SF/UTP CAT6a bu UL/CSA, CMR 2m

Ethernet CAT6A

The resistance to aggressive media should be individually tested for your application. Further details on request.

Male 90° – male 90°

M12 – M12, 8-pole

X-coded

shielded

without cable sleeves

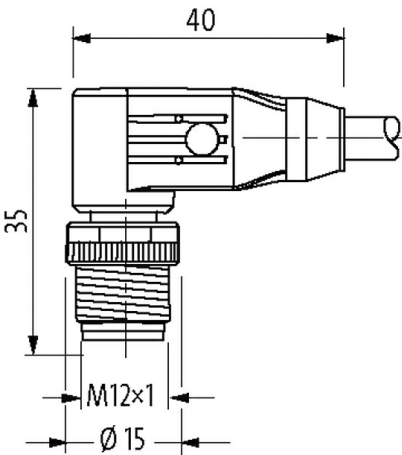
Transmission properties with channel transmission up to 50 m

Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

**[Link to Product](#)**

**Illustration**



|        |              |   |
|--------|--------------|---|
| 1      | white/orange | 1 |
| 2      | orange       | 2 |
| 3      | white/green  | 3 |
| 4      | green        | 4 |
| 5      | white/brown  | 5 |
| 6      | brown        | 6 |
| 7      | white/blue   | 7 |
| 8      | blue         | 8 |
| shield |              |   |

Product may differ from Image

Approvals



\* only for products with UL/CSA approved cable

More Info



Form

Form 51021

General data

|                   |                                          |
|-------------------|------------------------------------------|
| Standards         | DIN EN 61076-2-109 (M12)                 |
| Mounting method   | inserted, tightened                      |
| Pollution Degree  | 3                                        |
| Temperature range | -25...+85 °C, depending on cable quality |

#### Cables

|                                 |                                                       |
|---------------------------------|-------------------------------------------------------|
| Cable number                    | S4X                                                   |
| No./diameter of wires           | 4 × 2 × 0.14 mm <sup>2</sup>                          |
| Wire isolation                  | HDPE (whbl, bl, whor, or, whgn, gn, whbr, br)         |
| C-track properties              | 1 Mio.                                                |
| Jacket Color                    | blue                                                  |
| Material (jacket)               | TPE (UL/CSA)                                          |
| Outer Ø                         | 7.4 mm ±5%                                            |
| Bend radius (moving)            | 10 × outer Ø                                          |
| Temperature range (fixed)       | -40...+80 °C                                          |
| Temperature range (mobile)      | -20...+80 °C                                          |
| Cable identification            | S4X                                                   |
| Approval (cable)                | UL (AWM-Style 2463/11547), CSA                        |
| Cable weight [g/m]              | 65,48                                                 |
| Material (wire)                 | Cu wire, tin plated                                   |
| Resistor (core)                 | max. 140 Ohm/km                                       |
| Single wire Ø (core)            | 0.16 mm                                               |
| Construction (core)             | 7 × 0.16 mm                                           |
| Diameter (core)                 | 4 × 2 × 0.14 mm <sup>2</sup>                          |
| Material (wire isolation)       | HDPE                                                  |
| Wire-Ø incl. isolation          | 0.9 mm ±5%                                            |
| Color/numbering of wires        | (wh-bl, bl) + (wh-or, or) + (wh-gn, gn) + (wh-br, br) |
| Shield                          | yes                                                   |
|                                 | min. 75%                                              |
| Material (jacket)               | TPE                                                   |
| Outer-Ø (jacket)                | 7.4 mm ±5%                                            |
| thermal resistance              | flame retardant                                       |
| Nominal voltage                 | 600 V                                                 |
| Test voltage                    | max. 1.5 kV AC (2s)                                   |
| Temperature range (fixed)       | -40...+80 °C                                          |
| Temperature range (mobile)      | -20...+80 °C                                          |
| Bend radius (fixed)             | 5 × outer Ø                                           |
| Bend radius (moving)            | 10 × outer Ø                                          |
| No. of bending cycles (C-track) | max. 10 Mio. (25 °C)                                  |
| Traversing distance (C-track)   | max. 0.6 m                                            |
| Travel speed (C-track)          | max. 1.2 m/s                                          |
| Acceleration (C-track)          | max. 2.4 m/s <sup>2</sup>                             |
| No. of torsion cycles           | max. 3 Mio. (25 °C)                                   |
| Torsion speed                   | 60 cycles/min                                         |
|                                 | max. 1000 mOhm/m @ 100 MHz                            |
|                                 | max. 280 Ohm/km                                       |
|                                 | 100 Ohm @ 100 MHz                                     |

#### Technical Data

|                   |                      |
|-------------------|----------------------|
| Operating voltage | max. 50 V AC/60 V DC |
|-------------------|----------------------|

|                                           |                                                                  |
|-------------------------------------------|------------------------------------------------------------------|
| Operating voltage (only UL listed)        | 30 V AC/DC                                                       |
| Rated surge voltage                       | 1.5 kV                                                           |
| Operating current per contact             | max. 0.5 A                                                       |
| Material group                            | IEC 60664-1, category I                                          |
| No. of poles                              | 8                                                                |
| Transfer parameters                       | CAT6, Class EA (ISO/IEC 11801:2002), (EN 50173-1)                |
| Transfer rate                             | 10 Gbit/s                                                        |
| Coding                                    | X-coded                                                          |
| LED display                               | no                                                               |
| Locking of ports                          | Screw thread (M12×1 mm) recommended torque 0.6 Nm, self-securing |
| Compression gland                         | M12 (SW13)                                                       |
| Protection                                | IP67 inserted and tightened (EN 60529)                           |
| Locking material                          | Zinc die casting, matte nickel plated                            |
| Material                                  | PUR                                                              |
| suitable for corrugated tube (internal Ø) | without                                                          |

#### Commercial data

|                       |               |
|-----------------------|---------------|
| country of origin     | DE            |
| customs tariff number | 85444290      |
| EAN                   | 4048879699440 |
| eClass                | 27279221      |
| Packaging unit        | 1             |