

**M12 fem. recept. X-cod. / RJ45 male 0° shielded**

TPE 4x2x26AWG SF/UTP CAT6a bu UL/CSA. CMR 5m

Art.No.: 7700-51551-S4X0500

Weight: 0.36

Country of origin: DE

Model designation: MSXBFH-RA-08D\_S4X\_5.0-ZS

USA

Transmission properties with channel transmission up to 50 m

Ethernet CAT6A

Flange female straight – male straight

RJ45 – M12, 8-pole

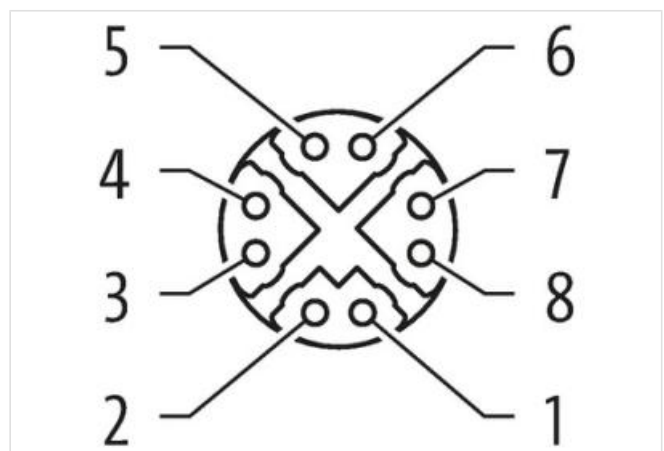
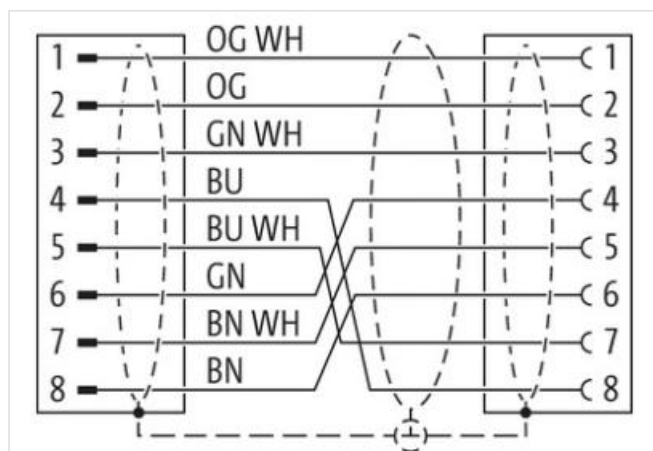
X-coded

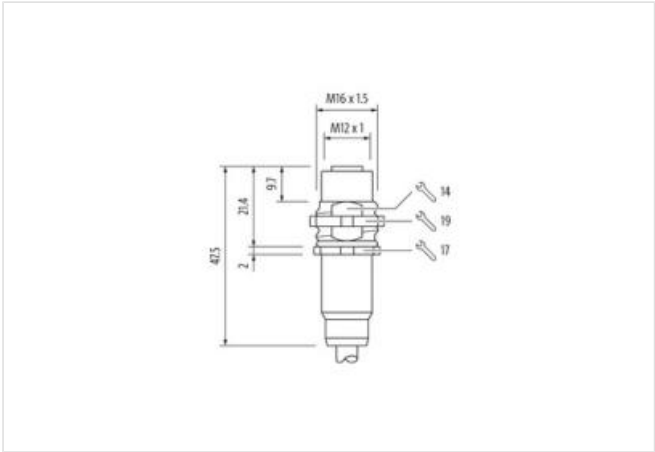
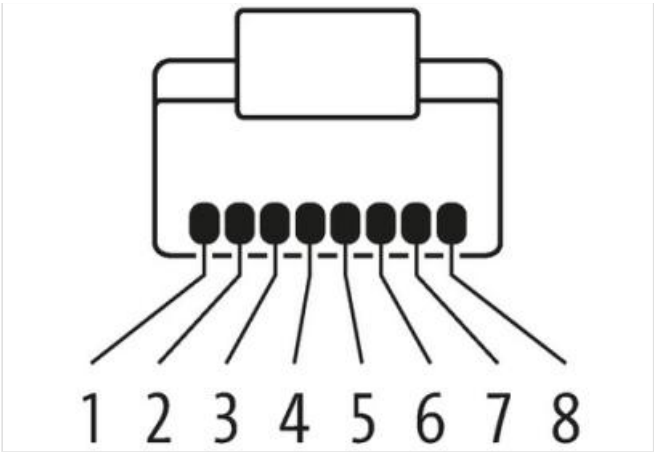
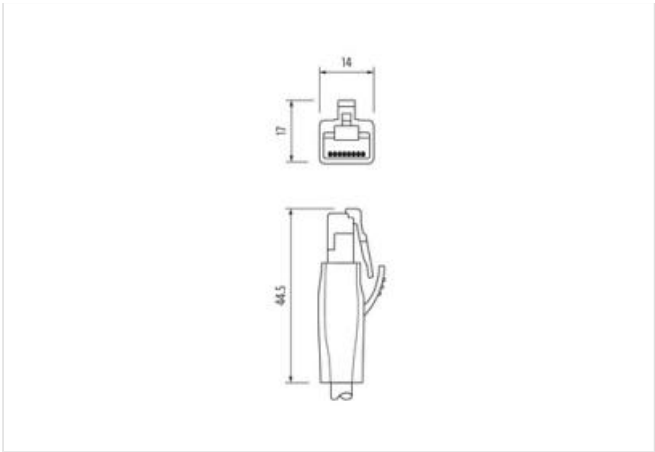
shielded

Rear mounting

without cable sleeves

Protection cap

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



Product may differ from Image



|                                     |                   |
|-------------------------------------|-------------------|
| Cable length                        | 5 m               |
| Side 1                              |                   |
| Tightening torque                   | 0,6 Nm            |
| Mounting method                     | inserted, screwed |
| Family construction form            | M12               |
| Thread                              | M12 x 1           |
| Gender                              | female            |
| Cable outlet                        | straight          |
| Coding                              | X                 |
| No. of poles                        | 8                 |
| Width across flats                  | SW17              |
| Degree of protection (EN IEC 60529) | IP67              |
| Side 2                              |                   |
| Mounting method                     | inserted          |
| Family construction form            | RJ45              |
| Gender                              | male              |
| Cable outlet                        | straight          |

|   |   |
|---|---|
| Coding  | X   |
| No. of poles                                    | 8   |
| Degree of protection (EN IEC 60529)             | IP20  |
| <b>Commercial data</b>                          |   |
| ECLASS-6.0                                      | 27279221  |
| ECLASS-6.1                                      | 27279220  |
| ECLASS-7.0                                      | 27440103  |
| ECLASS-8.0                                      | 27440103  |
| ECLASS-9.0                                      | 27440103  |
| ECLASS-10.1                                     | 27440103  |
| ECLASS-11.1                                     | 27440103  |
| ECLASS-12.0                                     | 27440103  |
| ETIM-5.0  | EC002599  |
| customs tariff number                           | 85444290  |
| customs tariff number                           | 85444290  |
| EAN   | 4048879718660   |
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| Packaging unit                                  | 1   |
| Packaging unit                                  | 1   |
| <b>Electrical data   Supply</b>                 |   |
| Operating voltage DC max.                       | 60 V  |
| Operating voltage DC (UL-listed)                | 30 V  |
| Operating current max.                          | 0,5 A   |
| <b>Industrial communication</b>                 |   |
| Transfer parameters                             | CAT6, Class EA (ISO/IEC 11801:2002), (EN 50173-1)   |
| Data transmission rate max.                     | 10 GBit/s   |
| <b>Diagnostics</b>                              |   |
| Status indication LED                           | no  |
| <b>Installation   Connection</b>                |   |
| Mounting set                                    | M16 x 1.5   |
| <b>Installation   Pin assignment</b>            |   |
| Configuration                                   | fully used  |
| <b>Device protection   Electrical</b>           |   |
| Additional condition protection degree          | inserted, screwed   |
| Pollution Degree                                | 3   |
| Rated surge voltage                             | 0,8 kV  |
| Material group (IEC 60664-1)                    | I   |
| <b>Mechanical data</b>                          |   |
| Contour for corrugated hose                     | without   |
| <b>Mechanical data   Material data</b>          |   |
| Coating of fitting                              | nickel plated   |
| Color contact carrier                           | green   |
| <b>Environmental characteristics   Climatic</b> |   |
| Operating temperature min.                      | -25 °C  |
| Operating temperature max.                      | 85 °C   |
| Additional condition temperature range          | depending on cable quality  |
| <b>Important installation notes</b>             |   |
| Note on strain relief                           | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   |
| Note on bending radius                          | <b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. |

| Installation   Cable                              |  |
|---|--|
| wire arrangement                                  | (orange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green) |
| Cable identification                              | S4X  |
| Function cable                                    | Data   |
| Jacket Color                                      | blue   |
| Type of Certificate                               | cURus  |
| Amount stranding                                  | 4  |
| Stranding   | 2 wires twisted  |
| Amount stranding (type 2)                         | 1  |
| Stranding (type 2)                                | 4 Stranded joints around Insulation element twisted                                    |
| Banding   | Foil   |
| Filler  | Insulation element   |
| wire arrangement                                  | (orange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green) |
| Cable length max.                                 | 66 m   |
| Cable weight                                      | 65,48 g/m  |
| Material jacket                                   | TPE  |
| Freedom from ingredients (jacket)                 | lead-free, CFC-free  |
| Outer-diameter (jacket)                           | 7,4 mm   |
| Tolerance outer diameter (sheath)                 | ± 5 %  |
| Material wire insulation                          | HDPE   |
| Amount wires                                      | 8  |
| Outer diameter insulation                         | 0,9 mm   |
| Outer diameter tolerance core insulation          | ± 5 %  |
| Ingredient freeness wire insulation               | lead-free, CFC-free  |
| Amount strands (wire)                             | 7  |
| Diameter of single wires                          | 26 AWG   |
| Conductor crosssection (wire)                     | 26 AWG   |
| Material conductor wire                           | copper stranded wire, tinned   |
| Nominal voltage AC max.                           | 600 V  |
| Current load capacity (standard)                  | to DIN VDE 0298-4  |
| Current load capacity min. wire                   | 2 A  |
| Characteristic impedance                          | 100 Ω @ 100 MHz  |
| Electrical resistance line constant wire          | 212 Ω/km @ 20 °C   |
| AC withstand voltage (wire - wire)                | 1,5 kV @ 2 s   |
| Electrical capacity line constant (wire - wire)   | 84850 pF/km  |
| Power frequency withstand voltage (wire - jacket) | 1,5 kV @ 2 s   |
| Loop resistance                                   | 424 Ω/km   |
| Min. operating temperature (static)               | -40 °C   |
| Max. operating temperature (fixed)                | 80 °C  |
| Operating temperature min. (dynamic)              | -40 °C   |
| Operating temperature max. (dynamic)              | 80 °C  |
| Storage temperature min.                          | -40 °C   |
| Storage temperature max.                          | 80 °C  |
| Flame resistance                                  | IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090                                    |
| chemical resistance                               | Good, application-related testing  |
| Gasoline resistance                               | Good, application-related testing  |
| Oil resistance                                    | DIN EN 60811-404   Good, application-related testing                                   |
| Bending radius (fixed)                            | 4 x Outer diameter   |
| Bending radius (dynamic)                          | 4 x Outer diameter   |
| No. of bending cycles (C-track)                   | 35 Mio. @ 25 °C  |
| Traversing distance (C-track)                     | 0,6 m @ 25 °C  |
| Travel speed (C-track)                            | 1,2 m/s @ 25 °C  |
| No. of torsion cycles                             | 3 Mio. 25 °C   |

The information in this Product-PDF has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-08-03

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|                |                     |
|----------------|---------------------|
| Torsion stress | ± 270 °/m @ 25 °C   |
| Torsion speed  | 60 cycles/min 25 °C |