

### M12 male 0° / male 0° X-cod. shielded

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

Art.No.: 7700-51001-S4X0500

Weight: 0.360 kg

Country of origin: CZ

Model designation: MSXAL0-XA-08D\_S4X\_5.0-ZS

#### Advantages of our connectors:

Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available [on request](#)

If you are missing technical information? Please feel free to use our [dictionary](#) to find more technical details.

#### Product details:

Ethernet CAT6A

Male straight – male straight

M12 – M12, 8-pole

X-coded

without cable sleeves

Shielded

Transmission properties with channel transmission up to 50 m

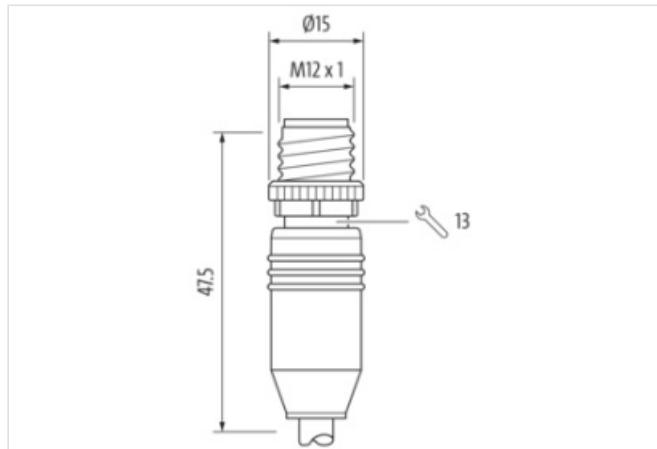
Further cable lengths on request.

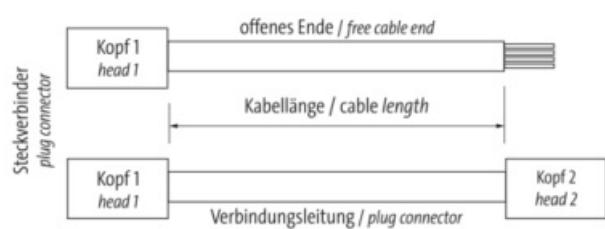
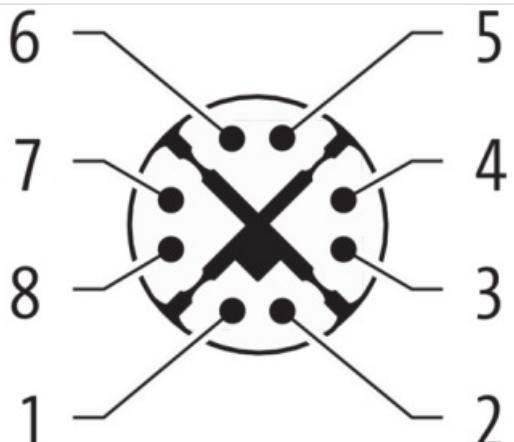
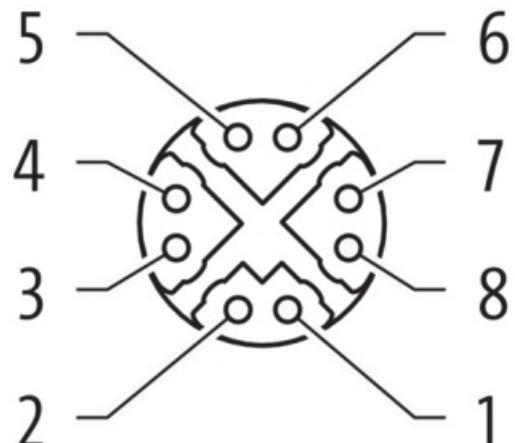
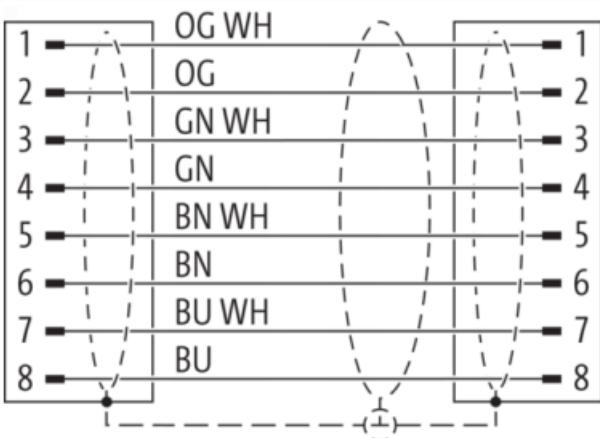
Plastic housings with good resistance against chemicals and oils.

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

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

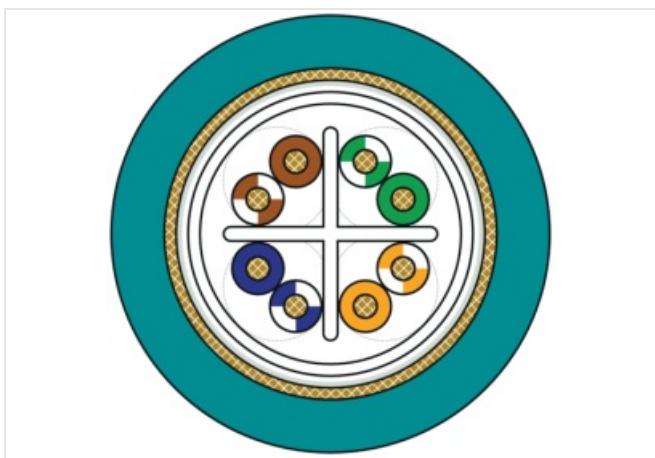
##### Illustration



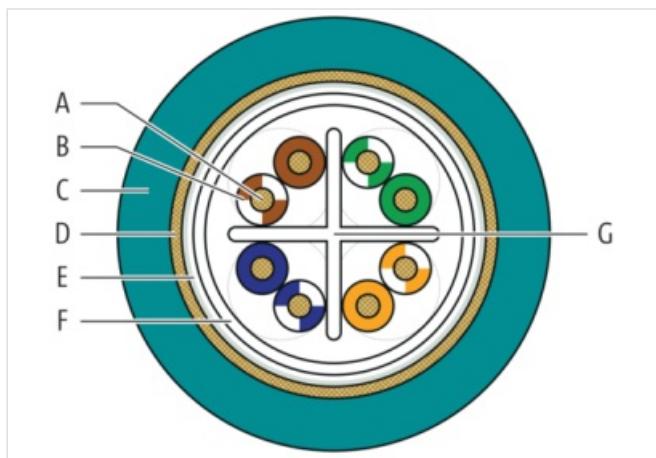


Toleranz Kabellängen:  
cable length tolerances

|                 |        |                 |       |
|-----------------|--------|-----------------|-------|
| 0m < L ≤ 0,5m   | +0,03m | 1,0m < L ≤ 3,0m | +0,1m |
| 0,5m < L ≤ 1,0m | +0,05m | 3,0m < L        | ±1,5% |



Product may differ from Image



#### Header

Material short text MSXAL0-XA-08D\_S4X\_5.0-ZS

Cable length 5,00 m

#### Side 1

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: 2026-02-03

Murrelektronik Inc. | 1327 Northbrook Parkway, Suite 460 | Suwanee, GA 30024 | Fon +1 770 497-9292 | Fax +1 770 497-9391 | shop@murrinc.com | shop.murrinc.com

|                                     |                   |
|-------------------------------------|-------------------|
| Family construction form            | M12               |
| No. of poles                        | 8                 |
| Coding                              | X                 |
| Gender                              | male              |
| Mounting method                     | inserted, screwed |
| Threaded hole                       | M12 x 1           |
| Tightening torque                   | 0,6 Nm            |
| Width across flats                  | SW13              |
| Cable outlet                        | straight          |
| Material                            | PUR               |
| Material contact                    | Copper alloy      |
| Coating contact                     | gold plated       |
| Degree of protection (EN IEC 60529) | IP67              |

**Side 2**

|                                     |                   |
|-------------------------------------|-------------------|
| Family construction form            | M12               |
| No. of poles                        | 8                 |
| Coding                              | X                 |
| Gender                              | male              |
| Mounting method                     | inserted, screwed |
| Threaded hole                       | M12 x 1           |
| Tightening torque                   | 0,6 Nm            |
| Width across flats                  | SW13              |
| Cable outlet                        | straight          |
| Material                            | PUR               |
| Material contact                    | Copper alloy      |
| Coating contact                     | gold plated       |
| Degree of protection (EN IEC 60529) | IP67              |

**Commercial data**

|                       |   |
|-----------------------|---|
| URL Webshop           | <a href="https://shop.murrelektronik.com/7700-51001-S4X0500">https://shop.murrelektronik.com/7700-51001-S4X0500</a> |
| GTIN                  | 4048879689953   |
| ECLASS-6.0            | 27061801  |
| ECLASS-6.1            | 27060307  |
| ECLASS-7.0            | 27060307  |
| ECLASS-7.1            | 27060307  |
| ECLASS-8.0            | 27060307  |
| ECLASS-8.1            | 27060307  |
| ECLASS-9.0            | 27060307  |
| ECLASS-9.1            | 27060307  |
| ECLASS-10.0.1         | 27060307  |
| ECLASS-10.1           | 27060307  |
| ECLASS-11.0           | 27060307  |
| ECLASS-11.1           | 27060307  |
| ECLASS-12.0           | 27060307  |
| ECLASS-13.0           | 27060307  |
| ECLASS-14.0           | 27060307  |
| ETIM-5.0              | EC002599  |
| ETIM-6.0              | EC002599  |
| ETIM-7.0              | EC002599  |
| ETIM-8.0              | EC002599  |
| customs tariff number | 85444290  |
| EAN                   | 4048879689953   |
| Packaging unit        | 1   |

**Electrical data | Supply**

|   |   |
|---|---|
| Operating voltage DC max.                       | 60 V  |
| Current operating per contact max.              | 1,5 A   |
| <b>Industrial Communication</b>                 |   |
| Data transmission rate max.                     | 10 Gbit/s   |
| Transfer parameters                             | CAT6, Class EA (ISO/IEC 11801:2002), (EN 50173-1)   |
| <b>Diagnostics</b>                              |   |
| Status indication LED                           | No  |
| <b>Device protection   Electrical</b>           |   |
| Degree of protection (EN IEC 60529)             | IP67  |
| Pollution Degree                                | 3   |
| Rated surge voltage                             | 1,5 kV  |
| Material group (IEC 60664-1)                    | I   |
| <b>Environmental characteristics   Climatic</b> |   |
| Operating temperature min.                      | -30 °C  |
| Operating temperature max.                      | 85 °C   |
| Additional condition temperature range          | depending on cable quality  |
| <b>Important installation notes</b>             |   |
| 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. |
| Note on strain relief                           | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   |
| <b>Installation   Cable</b>                     |   |
| Cable identification                            | S4X   |
| Function cable                                  | Data  |
| Amount stranding                                | 4   |
| Stranding                                       | 2 wires stranded  |
| Amount stranding (type 2)                       | 1   |
| Stranding (type 2)                              | 4 stranding combinations stranded around insulation element   |
| Banding   | Foil  |
| Filler  | Insulation element  |
| Cable weight                                    | 59,53 g/m   |
| Material wire insulation                        | HDPE  |
| Amount wires                                    | 8   |
| Outer diameter insulation                       | 0,9 mm  |
| Outer diameter tolerance core insulation        | ± 0,05 mm   |
| 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  |
| Outer-diameter (jacket)                         | 7,4 mm  |
| Tolerance outer diameter (sheath)               | ± 5 %   |
| Material jacket                                 | TPE   |
| Shore hardness jacket                           | 80 ± 5 Shore A  |
| Freedom from ingredients (jacket)               | lead-free, CFC-free   |
| Cable length max.                               | 66 m  |
| Conductor resistance (wire)                     | 212 Ω/km @ 20 °C  |
| Electrical capacity line constant (wire - wire) | 84.850 pF/km  |
| Nominal voltage max.                            | 600 V   |
| Loop resistance                                 | 424 Ω/km  |
| Withstand voltage (wire - wire)                 | 1.5 kV @ 2 s  |
| Withstand voltage (wire - jacket)               | 1.5 kV @ 2 s  |
| Current load capacity (standard)                | to DIN VDE 0298-4   |

|   |                              |
|---|------------------------------|
| Current load capacity max. (wire)       | 2 A                          |
| Characteristic impedance                | 100 Ω                        |
| Operating temperature min. (static)     | -40 °C                       |
| Operating temperature max. (static)     | 80 °C                        |
| Operating temperature min. (dynamic)    | -40 °C                       |
| Operating temperature max. (dynamic)    | 80 °C                        |
| Operating temperature min. (drag chain) | -40 °C                       |
| Operating temperature max. (drag chain) | 80 °C                        |
| Storage temperature min.                | -40 °C                       |
| Storage temperature max.                | 80 °C                        |
| Bending radius (fixed)                  | 4 × Outer diameter           |
| Bending radius (dynamic)                | 18 × 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              |
| Acceleration (C-track)                  | 2.4 m/s <sup>2</sup> @ 25 °C |
| No. of torsion cycles                   | 3 Mio. @ 25 °C               |
| Torsion stress                          | ± 270 °/m                    |
| Torsion speed                           | 60 cycles/min @ 25 °C        |