

**M12 male 0° / M12 male 90° X-cod. 180° shielded**

PUR 4x2xAWG26 shielded gn UL/CSA 1m

Art.No.: 7000-51012-7900100

Weight: 0.071

Country of origin: CZ

Model designation: MSXCL0-XA-08D790\_1.0-ZS-180°

Ethernet CAT6A

Male straight – male 90°

M12 – M12, 8-pole

X-coded

shielded

Attention: Contact carrier turned to 180°!

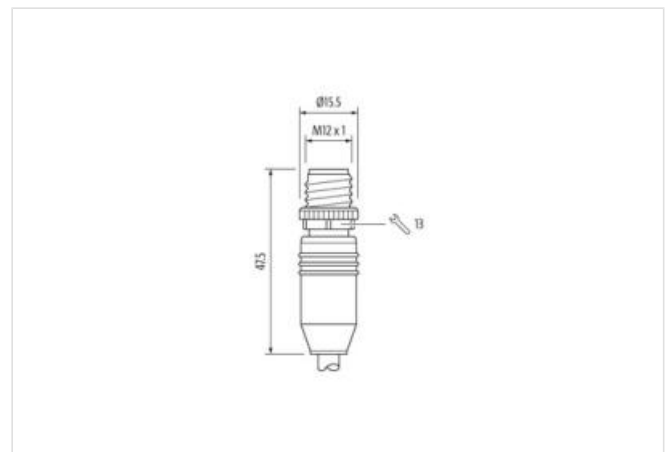
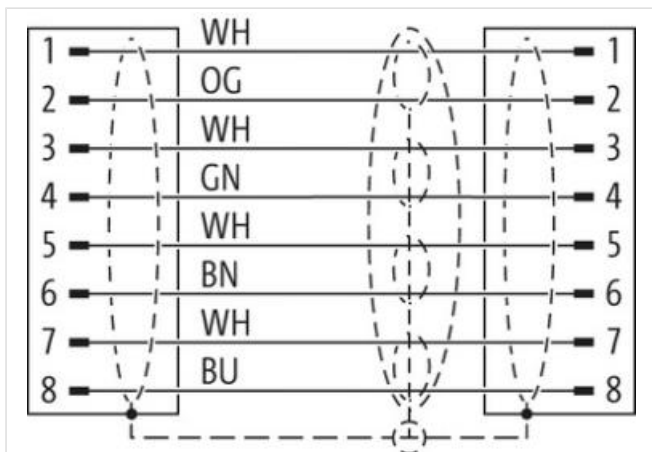
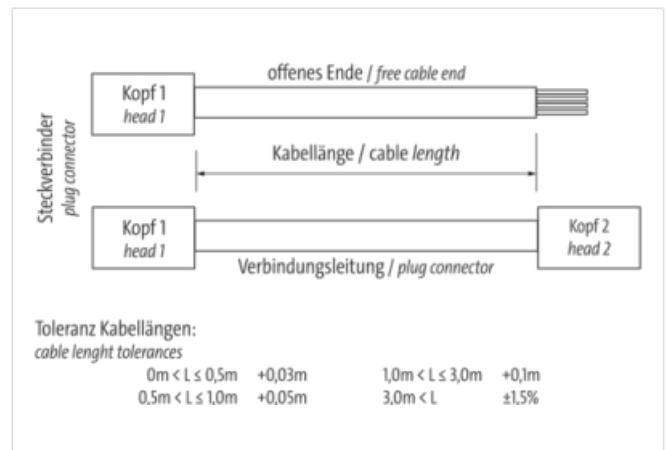
Transmission properties with channel transmission up to 50 m

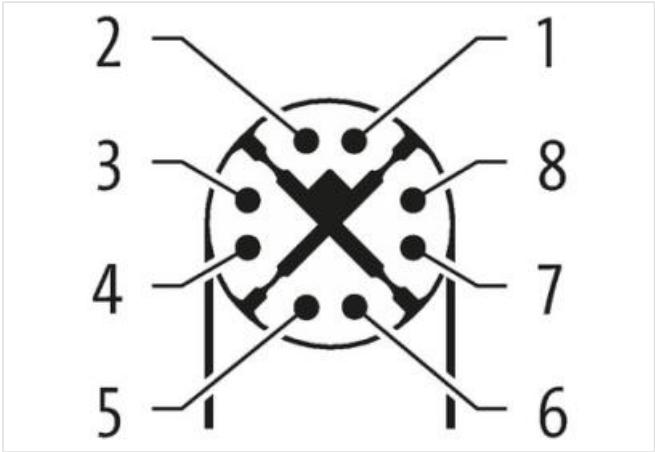
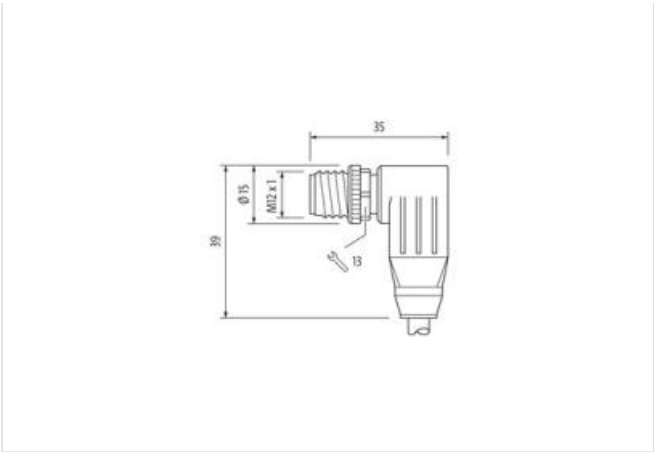
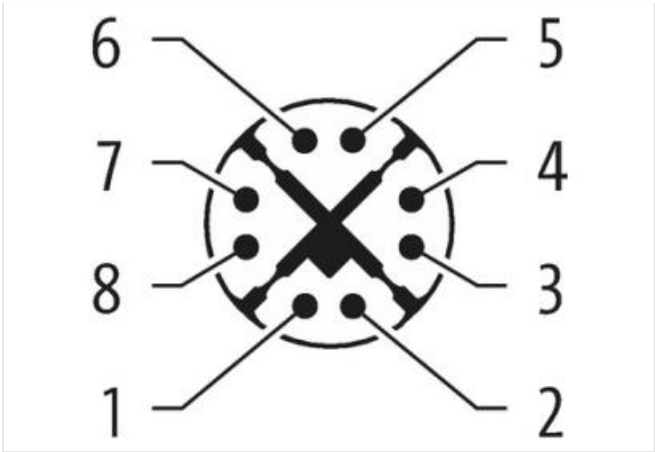
Further cable lengths on request.

Product fulfills requirements according to UN/ECE R118

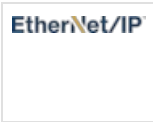
Plastic housings with good resistance against chemicals and oils.

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

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



Product may differ from Image



|              |     |
|--------------|-----|
| Cable length | 1 m |
|--------------|-----|

Side 1

|                                     |                   |
|-------------------------------------|-------------------|
| Tightening torque                   | 0,6 Nm            |
| Mounting method                     | inserted, screwed |
| Coating contact                     | gold plated       |
| Family construction form            | M12               |
| Thread                              | M12 x 1           |
| Gender                              | male              |
| Cable outlet                        | straight          |
| Coding                              | X                 |
| Material contact                    | Copper alloy      |
| Material                            | PUR               |
| No. of poles                        | 8                 |
| Width across flats                  | SW13              |
| Degree of protection (EN IEC 60529) | IP65, IP66K, IP67 |

Side 2

|                   |                   |
|-------------------|-------------------|
| Tightening torque | 0,6 Nm            |
| Mounting method   | inserted, screwed |

|                                     |                   |
|-------------------------------------|-------------------|
| Coating contact                     | gold plated       |
| Family construction form            | M12               |
| Thread                              | M12 x 1           |
| Gender                              | male              |
| Cable outlet                        | angled            |
| Coding                              | X                 |
| Material contact                    | Copper alloy      |
| Material                            | PUR               |
| No. of poles                        | 8                 |
| Width across flats                  | SW13              |
| Degree of protection (EN IEC 60529) | IP65, IP66K, IP67 |

#### Commercial data

|                       |               |
|-----------------------|---------------|
| ECLASS-6.0            | 27061801      |
| ECLASS-6.1            | 27060307      |
| ECLASS-7.0            | 27060307      |
| ECLASS-8.0            | 27060307      |
| ECLASS-9.0            | 27060307      |
| ECLASS-10.1           | 27060307      |
| ECLASS-11.1           | 27060307      |
| ECLASS-12.0           | 27060307      |
| ETIM-5.0              | EC002599      |
| ETIM-6.0              | EC002599      |
| ETIM-7.0              | EC002599      |
| ETIM-8.0              | EC002599      |
| customs tariff number | 85444290      |
| customs tariff number | 85444290      |
| EAN                   | 4048879913089 |
| EAN                   | 4048879913089 |
| Packaging unit        | 1             |
| Packaging unit        | 1             |

#### Electrical data | Supply

|                                    |       |
|------------------------------------|-------|
| Operating voltage AC               | 50 V  |
| Operating voltage DC               | 60 V  |
| Current operating per contact max. | 0,5 A |

#### Industrial communication

|                             |                                                   |
|-----------------------------|---------------------------------------------------|
| Transfer parameters         | CAT6, Class EA (ISO/IEC 11801:2002), (EN 50173-1) |
| Data transmission rate max. | 10 GBit/s                                         |

#### Device protection | Electrical

|                                     |                   |
|-------------------------------------|-------------------|
| Degree of protection (EN IEC 60529) | IP65, IP67, IP66K |
| Pollution Degree                    | 3                 |
| Rated surge voltage                 | 1,5 kV            |
| Material group (IEC 60664-1)        | I                 |

#### Mechanical data

|                             |         |
|-----------------------------|---------|
| Contour for corrugated hose | without |
|-----------------------------|---------|

#### Environmental characteristics | Climatic

|                                        |                            |
|----------------------------------------|----------------------------|
| Operating temperature min.             | -25 °C                     |
| Operating temperature max.             | 85 °C                      |
| Additional condition temperature range | depending on cable quality |

#### Important installation notes

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

**Attention:** Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.

| Conformity                                        |                                                                |
|---------------------------------------------------|----------------------------------------------------------------|
| Product standard                                  | DIN EN 61076-2-109 (M12)                                       |
| Installation   Cable                              |                                                                |
| wire arrangement                                  | (white, orange), (white, blue), (white, brown), (white, green) |
| Cable identification                              | 790                                                            |
| Jacket Color                                      | green                                                          |
| Type of Certificate                               | cURus                                                          |
| Amount stranding                                  | 4                                                              |
| Stranding                                         | 2 wires twisted                                                |
| Amount stranding (type 2)                         | 1                                                              |
| Stranding (type 2)                                | 4 Stranded joints twisted                                      |
| Cable shielding (type)                            | copper braid, tinned                                           |
| Cable shielding (coverage)                        | 65 %                                                           |
| Pair shielding (type)                             | Metal foil                                                     |
| Banding                                           | Foil                                                           |
| wire arrangement                                  | (white, orange), (white, blue), (white, brown), (white, green) |
| Cable weight                                      | 52,8 g/m                                                       |
| Material jacket                                   | PUR                                                            |
| Shore hardness jacket                             | 89 Shore A                                                     |
| Freedom from ingredients (jacket)                 | lead-free, CFC-free, halogen-free                              |
| Outer-diameter (jacket)                           | 6,4 mm                                                         |
| Tolerance outer diameter (sheath)                 | ± 5 %                                                          |
| Material wire insulation                          | PE                                                             |
| Amount wires                                      | 8                                                              |
| Outer diameter insulation                         | 1,05 mm                                                        |
| Outer diameter tolerance core insulation          | ± 5 %                                                          |
| Shore hardness wire insulation                    | 65 Shore D                                                     |
| Ingredient freeness wire insulation               | lead-free, CFC-free, halogen-free                              |
| Amount strands (wire)                             | 7                                                              |
| Diameter of single wires                          | 26 AWG                                                         |
| Conductor crosssection (wire)                     | 26 AWG                                                         |
| Material conductor wire                           | Stranded copper wire, bare                                     |
| Nominal voltage AC max.                           | 125 V                                                          |
| Current load capacity (standard)                  | to DIN VDE 0298-4                                              |
| Current load capacity min. wire                   | 2 A                                                            |
| Electrical resistance line constant wire          | 140 Ω/km @ 20 °C                                               |
| AC withstand voltage (wire - wire)                | 2 kV @ 60 s                                                    |
| Electrical capacity line constant (wire - wire)   | 44000 pF/km                                                    |
| Power frequency withstand voltage (wire - jacket) | 2 kV @ 60 s                                                    |
| AC withstand voltage (wire - shield)              | 2 kV @ 60 s                                                    |
| Isolation resistance                              | 5000 MΩ × km                                                   |
| Min. operating temperature (static)               | -40 °C                                                         |
| Max. operating temperature (fixed)                | 80 °C                                                          |
| Operating temperature min. (dynamic)              | -30 °C                                                         |
| Operating temperature max. (dynamic)              | 70 °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                                    | Good, application-related testing   DIN EN 60811-404           |
| Bending radius (fixed)                            | 8 x Outer diameter                                             |
| Bending radius (dynamic)                          | 10 x Outer diameter                                            |

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: 2025-11-05

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