

M12 male 0° / M12 male 90° X-cod. 135° shielded

PUR 4x2xAWG26 shielded gn UL/CSA 2m

Art.No.: 7000-51013-7900200

Weight: 0.14

Country of origin: DE

Model designation: MSXAL0-XC-08D790_2.0-ZS-135°

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:

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

Further cable lengths on request.

Male straight – male 90°

Product fulfills requirements according to UN/ECE R118

Attention: Contact carrier side 2 rotated 135° clockwise!

M12 – M12, 8-pole

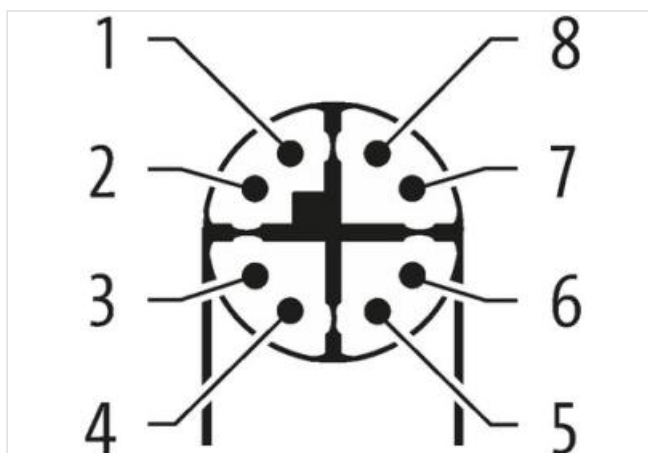
X-coded

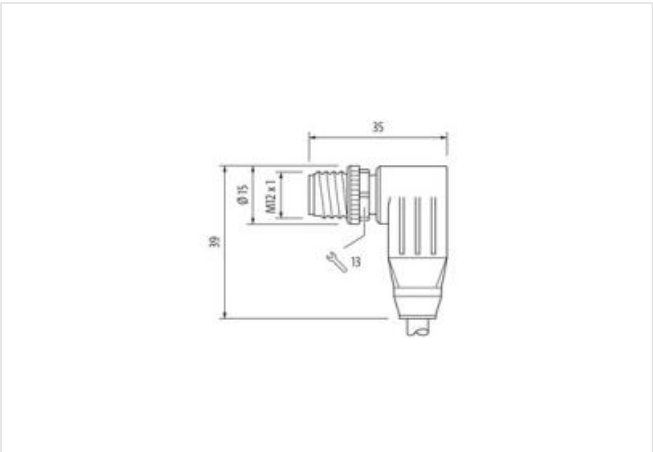
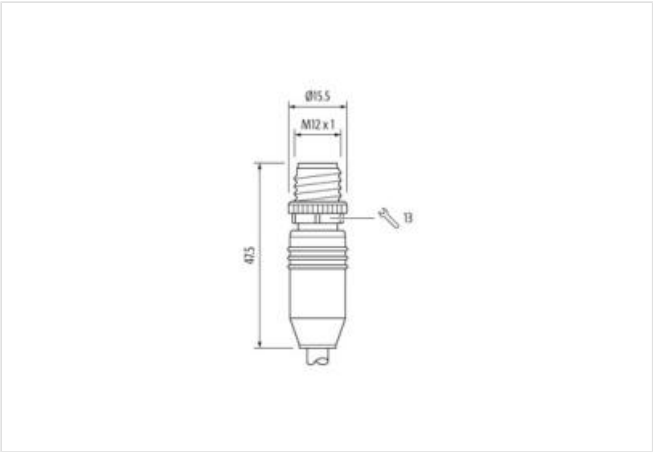
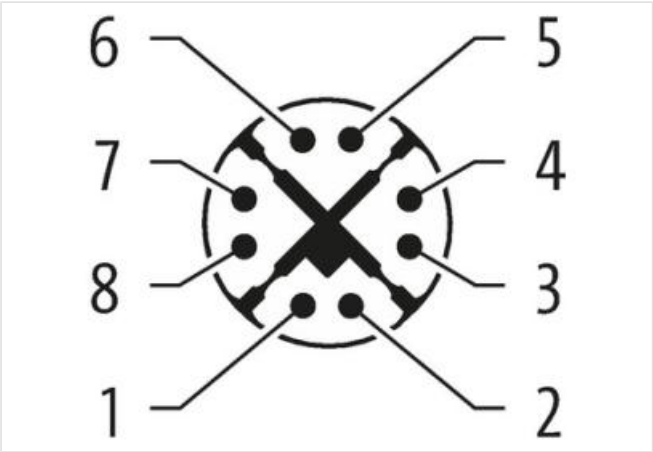
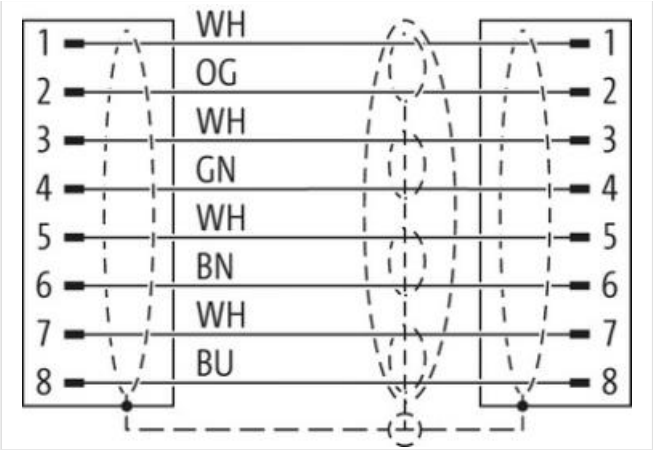
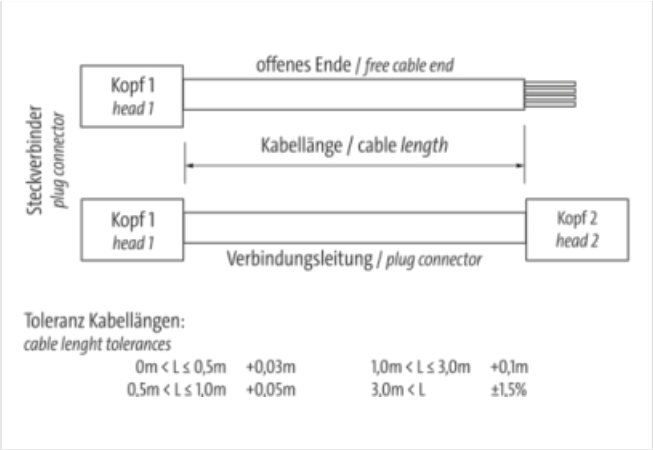
Shielded

with cable sleeves

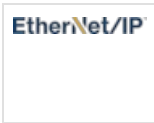
maximum length for channel transmission corresponds to 50 mm

Good chemical and oil resistance (oil resistance does not apply to use with PVC cable)

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



Product may differ from Image



| | |
|-------------------|--------|
| Cable length | 2 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 | EC001855 |
| customs tariff number | 85444290 |
| customs tariff number | 85444290 |
| EAN | 4048879869409 |
| EAN | 4048879869409 |
| Packaging unit | 1 |
| Packaging unit | 1 |
| Electrical data Supply | |
| Operating voltage AC | 50 V |
| Operating voltage DC | 60 V |
| Operating current max. | 0,5 A |
| Industrial communication | |
| Data transmission rate max. | 10 GBit/s |
| Diagnostics | |
| Status indication LED | no |
| Device protection Electrical | |
| Degree of protection (EN IEC 60529) | IP65, IP67, IP66K |

| | |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional condition protection degree | inserted, screwed |
| Pollution Degree | 3 |
| Rated surge voltage | 1,5 kV |
| Material group (IEC 60664-1) | I |
| Mechanical data Material data | |
| Coating locking | Nickeled |
| Locking material | Zinc die-casting |
| Mechanical data Mounting data | |
| Mounting method | inserted, screwed |
| 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 M Ω x 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 |