

M12 male 0° X-cod. / RJ45 male 0° shielded

PUR 4x2xAWG26 shielded gn UL/CSA 3m

Art.No.: 7000-51101-7900300

Weight: 0.171 kg

Country of origin: CZ

Model designation: MSXAL0-RA-08D790_3.0-ZS

Product fulfills requirements according to UN/ECE R118

Male straight – male straight

M12 – RJ45, 8-pole

X-coded

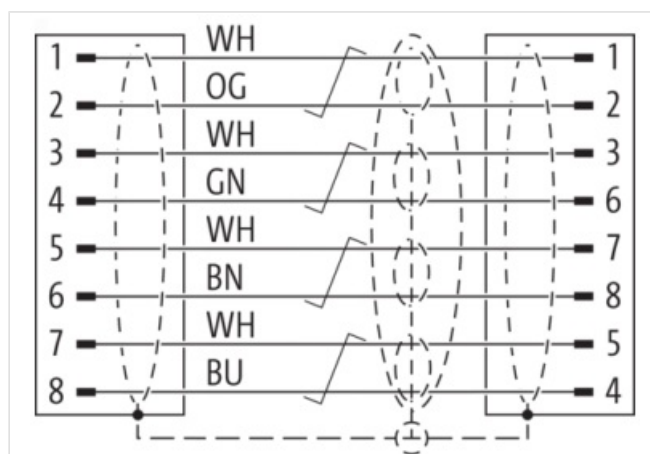
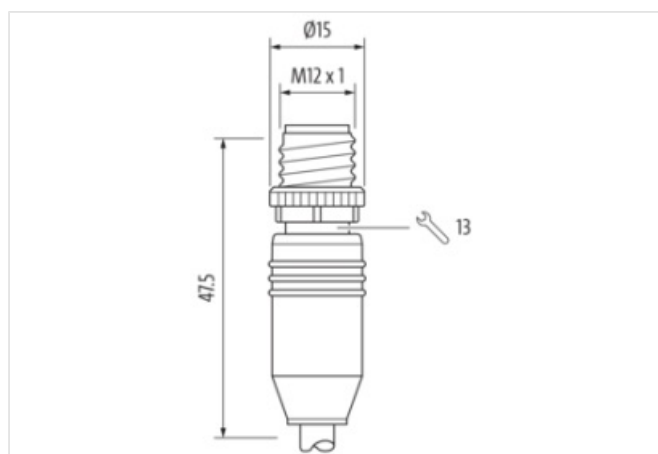
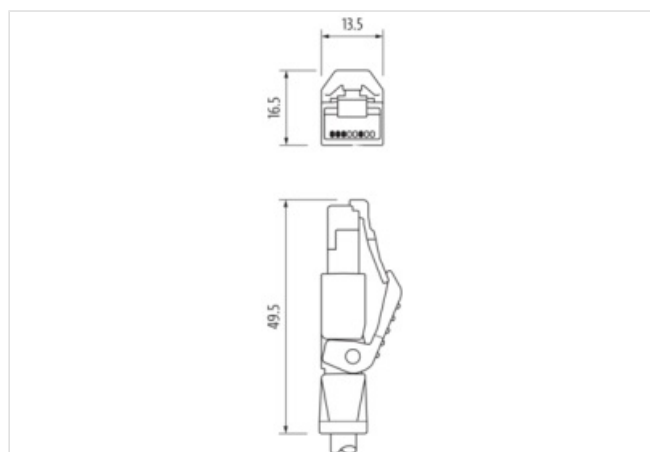
Shielded

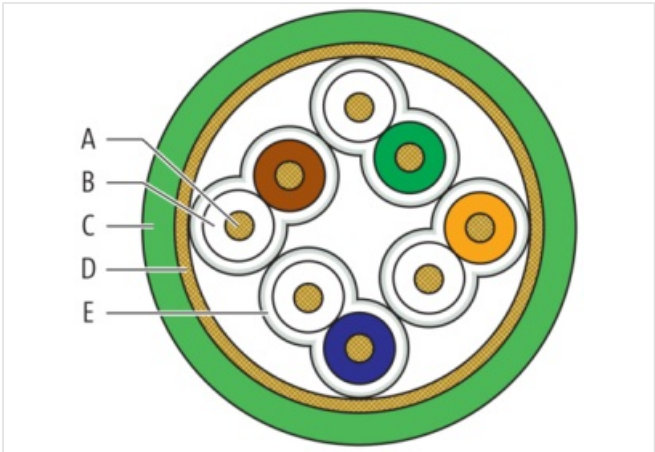
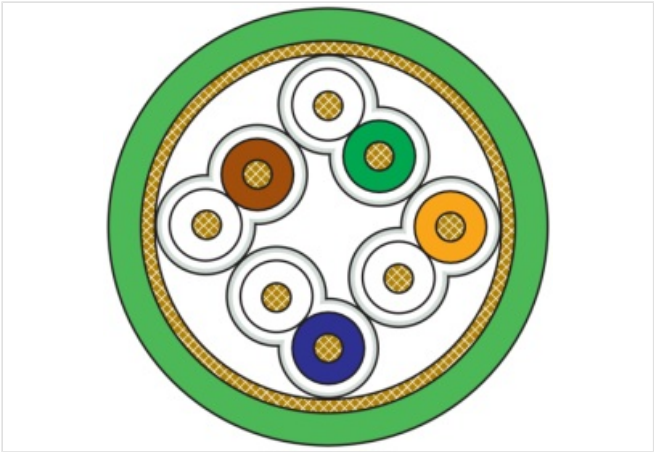
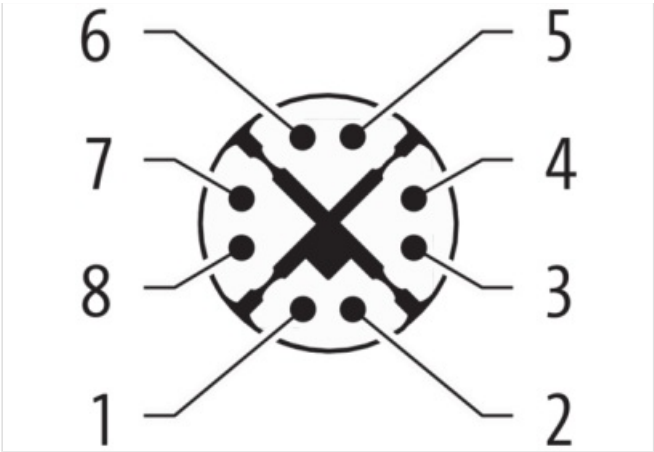
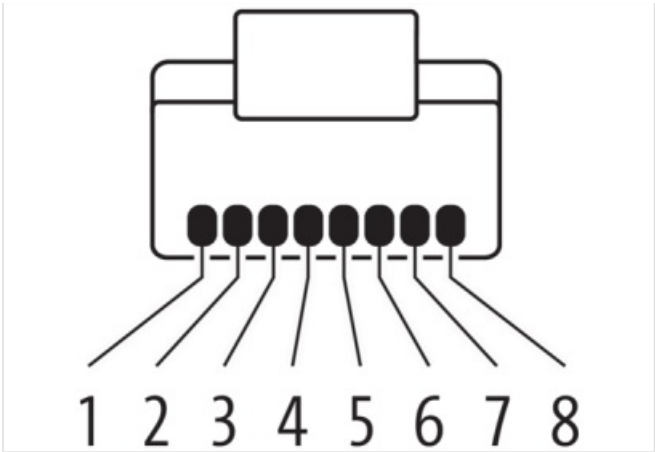
Transmission properties with channel transmission up to 50 m

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**



Product may differ from Image



Header

| | |
|---------------------|-------------------------|
| Material short text | MSXAL0-RA-08D790_3.0-ZS |
| Cable length | 3,00 m |

Side 1

| | |
|-------------------------------------|--------------------|
| Family construction form | M12 |
| No. of poles | 8 |
| Coding | X |
| Gender | male |
| Mounting method | pluggable, 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, IP66K |

Side 2

| | |
|-------------------------------------|-----------|
| Family construction form | RJ45 |
| No. of poles | 8 |
| Gender | male |
| Mounting method | pluggable |
| Cable outlet | straight |
| Material | PUR |
| Degree of protection (EN IEC 60529) | IP20 |

Commercial data

| | |
|-----------------------|---|
| URL Webshop | https://shop.murrelektronik.com/7000-51101-7900300 |
| GTIN | 4048879642958 |
| 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 | 4048879642958 |
| Packaging unit | 1 |

Electrical data | Supply

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

Industrial Communication

| | |
|-----------------------------|-----------|
| Data transmission rate max. | 10 Gbit/s |
|-----------------------------|-----------|

Transfer parameters

CAT6, Class EA (ISO/IEC 11801:2002), (EN 50173-1)

Diagnostics

Status indication LED No

Device protection | Electrical

Pollution Degree 3

Rated surge voltage 1 kV

Material group (IEC 60664-1) I

Mechanical data

Contour for corrugated hose without

Mechanical data | Material data

Locking material Zinc die-casting

Locking screw coating Nickerled

Mechanical data | Mounting data

Mounting method inserted, screwed, Shaking protection

Environmental characteristics | Climatic

Operating temperature min. -30 °C

Operating temperature max. 85 °C

Additional condition temperature range depending on cable quality

Important installation notes

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.

Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.

Conformity

Product standard EN/IEC 61076-2-109 (M12)

Installation | Cable

Cable identification 790

Function cable Data

Amount stranding 4

Stranding 2 wires stranded

Amount stranding (type 2) 1

Stranding (type 2) 4 stranding combinations stranded

Cable shielding (type) copper braid, tinned

Cable shielding (coverage) 65 %

Pair shielding (type) Metal foil

Banding Foil

Cable weight 48 g/m

Material wire insulation PE

Amount wires 8

Outer diameter insulation 1,05 mm

Outer diameter tolerance core insulation - 0,02 mm

Shore hardness wire insulation 65 ± 5 Shore D

Ingredient freeness wire insulation lead-free, CFC-free, halogen-free

Amount strands (wire) 7

Diameter of single wires 34 AWG

Conductor crosssection (wire) 26 AWG

Material conductor wire Stranded copper wire, bare

Outer-diameter (jacket) 6,4 mm

Tolerance outer diameter (sheath) ± 5 %

Material jacket PUR

Shore hardness jacket 89 ± 5 Shore A

| | |
|---|--|
| Freedom from ingredients (jacket) | lead-free, CFC-free, halogen-free |
| Conductor resistance (wire) | 140 Ω /km @ 20 °C |
| Electrical capacity line constant (wire - wire) | 44.000 pF/km |
| Isolation resistance | 5.000 M Ω × km |
| Nominal voltage max. | 125 V |
| Withstand voltage (wire - wire) | 2 kV @ 60 s |
| Withstand voltage (wire - jacket) | 2 kV @ 60 s |
| Withstand voltage (wire - shield) | 2 kV @ 60 s |
| Current load capacity (standard) | to DIN VDE 0298-4 |
| Current load capacity max. (wire) | 2 A |
| Operating temperature min. (static) | -40 °C |
| Operating temperature max. (static) | 80 °C |
| Operating temperature min. (dynamic) | -30 °C |
| Operating temperature max. (dynamic) | 70 °C |
| Flame resistance | UL 1581 § 1090, UL 1581 § 1100, IEC 60332-1-2 |
| Oil resistance | IEC 60811-404, IRM 902 |
| Ozone resistance | EN 50396 |
| Other resistances | resistant to microbes, MUD-resistant (NEK 606) |
| Bending radius (fixed) | 8 × Outer diameter |
| Bending radius (dynamic) | 10 × Outer diameter |