

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

PUR 4x2xAWG26 shielded gn UL/CSA 15m

Art.No.: 7000-51101-7901500

Weight: 0.747 kg

Country of origin: CZ

Model designation: MSXAL0-RA-08D790_15.0-ZS

Product fulfills requirements according to UN/ECE R118

Male straight – male straight

M12 – RJ45, 8-pole

X-coded

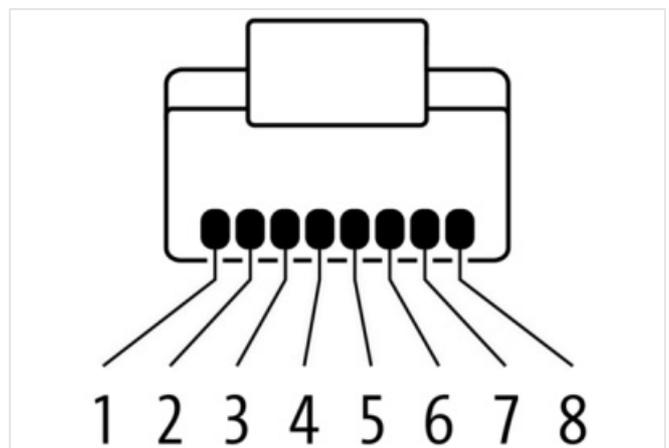
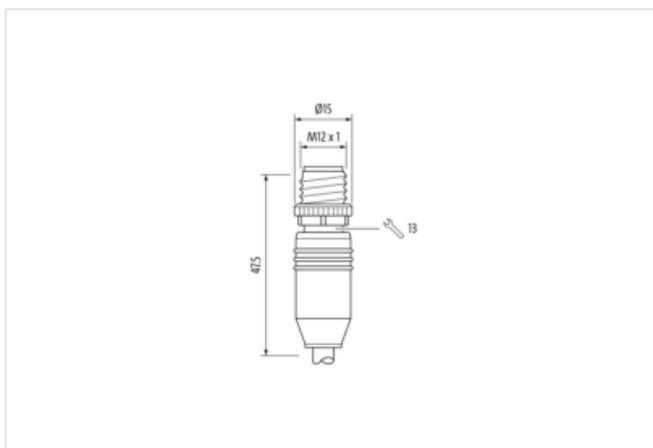
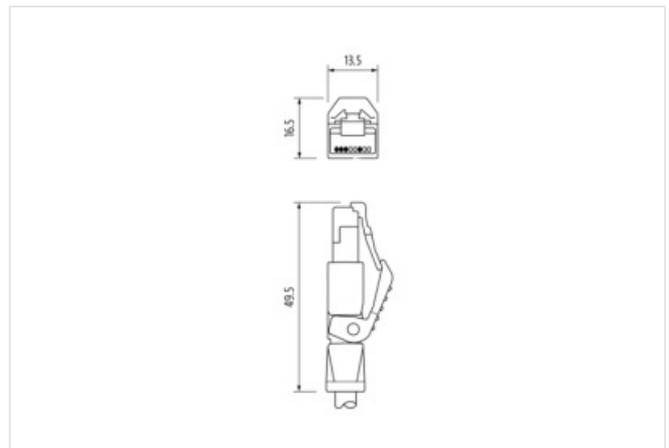
Shielded

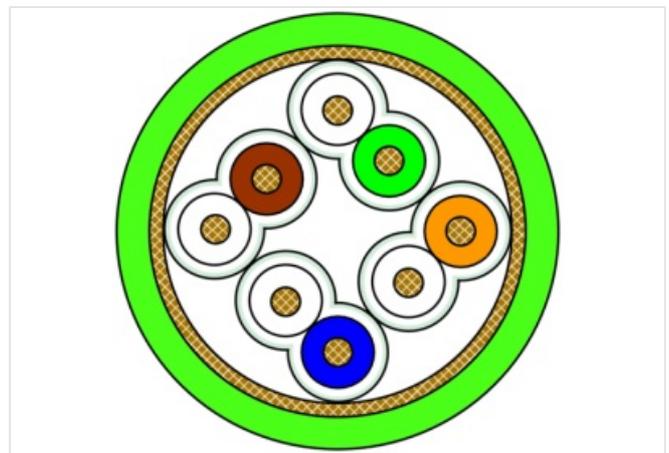
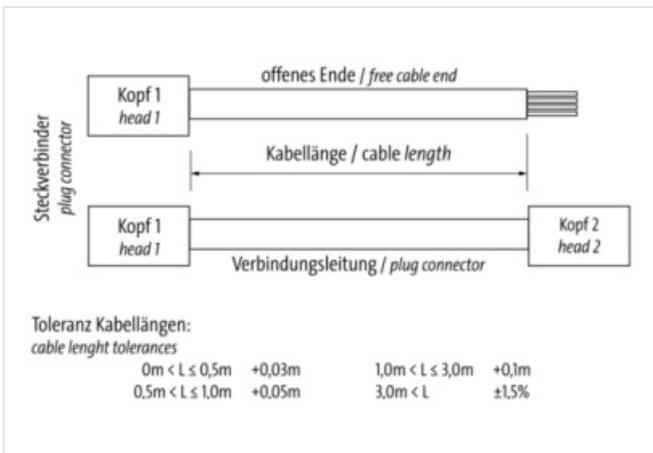
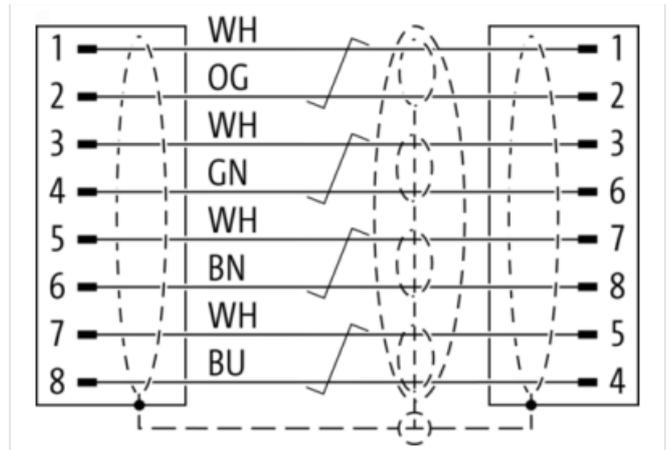
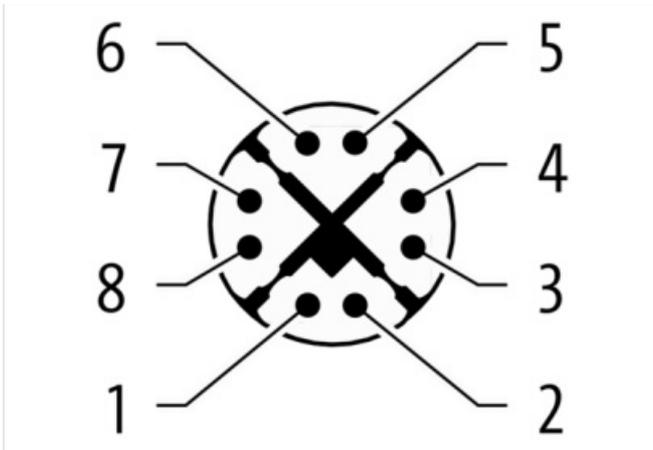
Transmission properties with channel transmission up to 50 m

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



Cable length 15,00 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/7000-51101-7901500 |
| GTIN | 4048879655354 |
| Customs tariff number | 85444290 |
| 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 | 4048879655354 |
| 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

| | |
|--|-------------------|
| Additional condition protection degree | inserted, screwed |
| 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 |
| Coating locking | Nickeled |

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 |
| Cable weight | 48 g/m |
| UL AWM Style | 20549 / 10532 |
| Stranding | 4 × 2 wires stranded |
| Stranding (type 2) | 1 × 4 stranding combinations stranded |
| Cable shielding (type) | copper braid, tinned |
| Cable shielding (coverage) | 65 % |
| Pair shielding (type) | Metal foil |
| Banding | Foil |
| Wire arrangement | (WH, BN), (WH, GN), (WH, OG), (WH, BU) |
| Shield | shielded |
| Material wire insulation | PE |
| Amount wires | 8 |
| Outer diameter insulation | 1.05 mm - 0.02 mm |
| Conductor crosssection (wire) | 26 AWG |
| Material conductor wire | Stranded copper wire, bare |
| Core construction (wire) | 7 |
| Ingredient freeness wire insulation | lead-free, CFC-free, halogen-free |
| Material jacket | PUR |
| Outer-diameter (jacket) | 6.4 mm ± 5 % |
| Jacket Color | green / RAL 6018 |
| Freedom from ingredients (jacket) | lead-free, CFC-free, halogen-free |
| Cable shielding (type) | copper braid, tinned |
| Cable shielding (coverage) | 65 % |
| Pair shielding (type) | Metal foil |
| Conductor resistance (wire) | 140 Ω/km @ 20 °C |
| 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 max. (wire) | 2 A |
| Current load capacity (standard) | to DIN VDE 0298-4 |
| Electrical capacity line constant (wire - wire) | 44.000 pF/km |
| Isolation resistance | 5.000 MΩ × km |
| Characteristic impedance | 100 Ω ± 15 % @ 15 MHz |
| Cable type | Industrial Ethernet CAT7 |
| Operating temperature (static) | -40 °C ... 80 °C |
| Operating temperature (dynamic) | -30 °C ... 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 |

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: 2026-05-02

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|--------------------------|--|
| Other resistances | resistant to microbes, MUD-resistant (NEK 606) |
| Notes | application-related testing |
| Bending radius (fixed) | 8 × Outer diameter |
| Bending radius (dynamic) | 10 × Outer diameter |