

M12 female 0° D-cod. / RJ45 male 0° shielded

PUR 1x4xAWG26 shielded gn UL/CSA+drag ch. 0.3m

Art.No.: 7000-44621-7910030

Weight: 0.034 kg

Country of origin: DE

Model designation: MSRAL0-DB-T791_0.3-ZS

Ethernet CAT5

Female straight – male straight

M12 – RJ45, 4-pole

D-coded

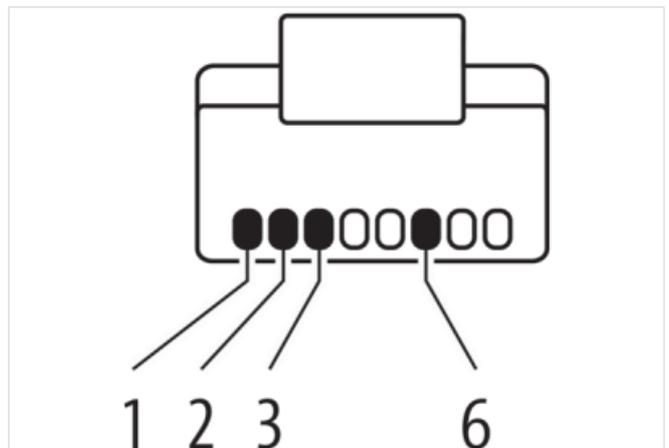
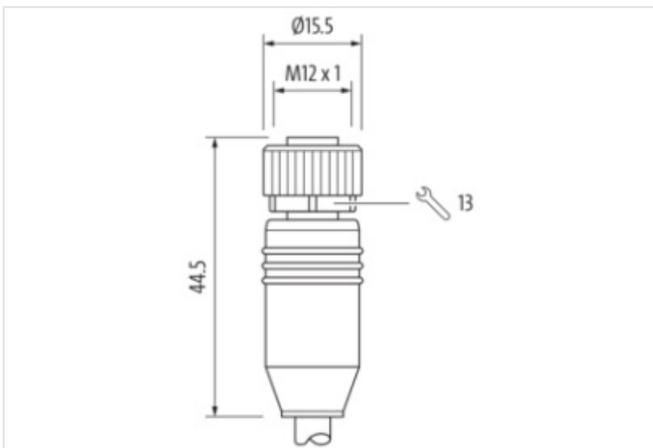
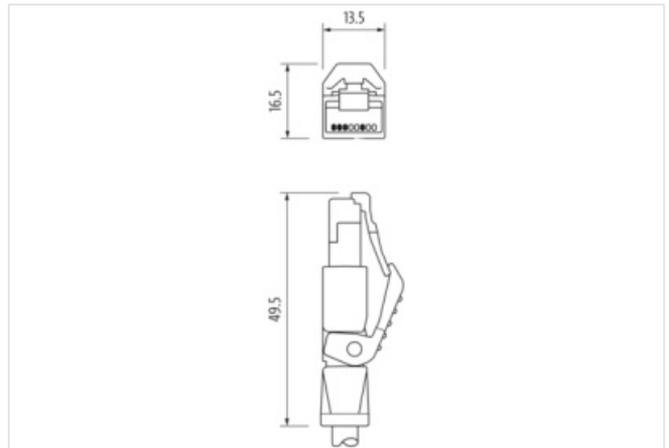
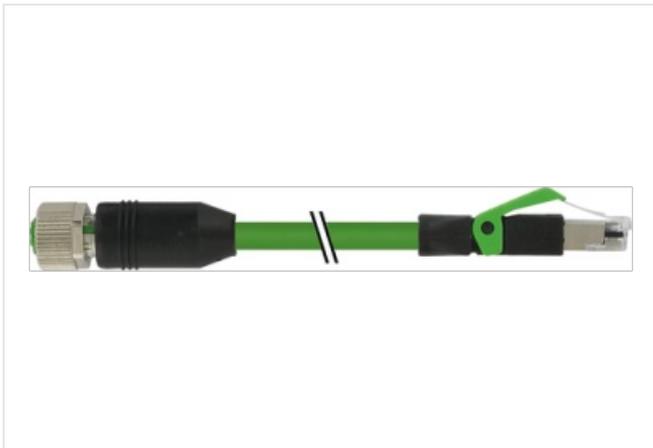
Shielded

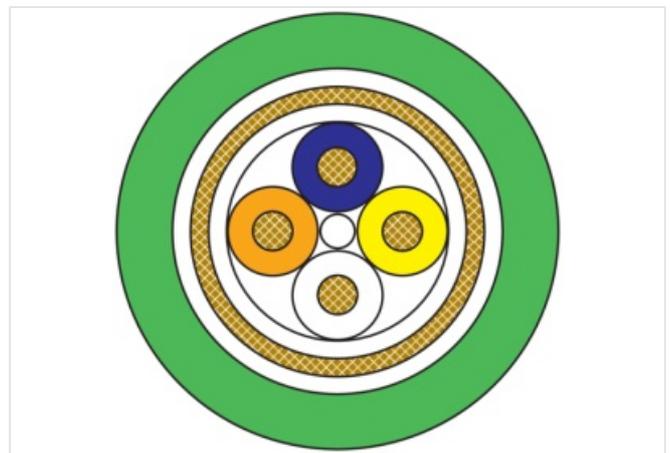
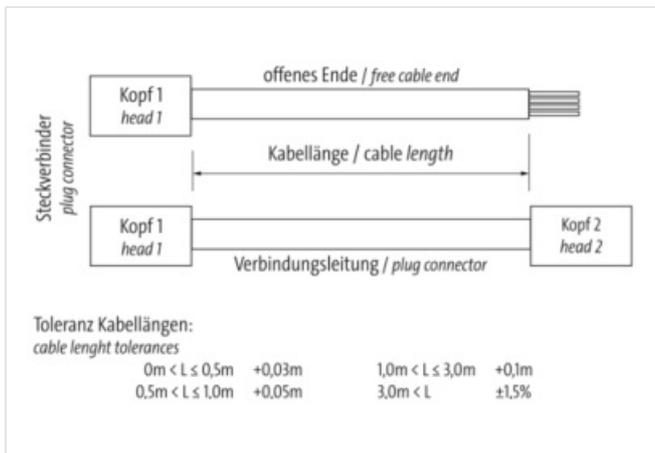
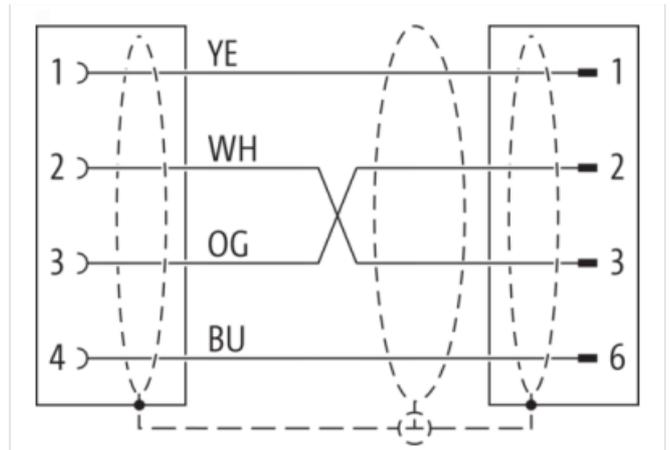
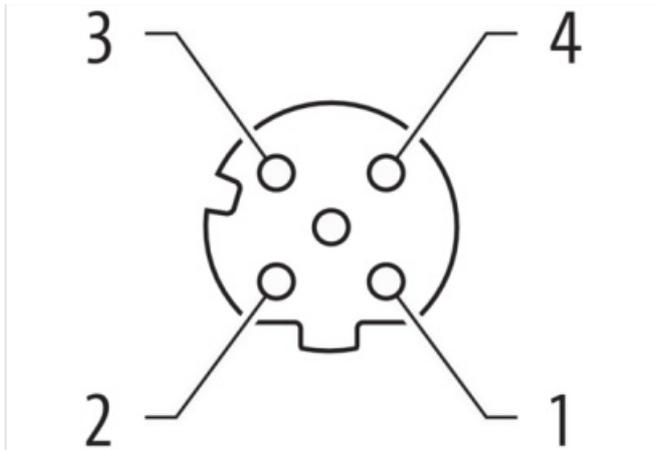
Transmission properties with channel transmission up to 100 m

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 | MSRAL0-DB-T791_0.3-ZS |
| Cable length | 0,30 m |
| Side 1 | |
| Family construction form | M12 |
| No. of poles | 4 |
| Coding | D |
| Gender | female |
| 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 | RJ45 |
| No. of poles | 4 |
| 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/7000-44621-7910030 |
| GTIN | 4048879686532 |
| 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 | 4048879686532 |
| Packaging unit | 1 |

Electrical data | Supply

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|------------------------------------|-------|
| Operating voltage DC max. | 60 V |
| Current operating per contact max. | 1,5 A |

Industrial Communication

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|-----------------------------|--|
| Data transmission rate max. | 100 Mbit/s |
| Transfer parameters | CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1) |

Industrial communication | Ethernet functionality

| | |
|--------|-------------|
| duplex | Full duplex |
|--------|-------------|

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

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

Mechanical data | Material data

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|---------------------------|------------------|
| Material screw connection | Zinc die-casting |
| Coating of fitting | nickel plated |
| Locking material | PA |

Material gasket FKM

Environmental characteristics | Climatic

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|--|----------------------------|
| Operating temperature min. | -30 °C |
| Operating temperature max. | 85 °C |
| Additional condition temperature range | depending on cable quality |

Important installation notes

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

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|------------------|---|
| Product standard | EN IEC 61076-2-101 (M12), EN IEC 60603-7 (RJ45) |
|------------------|---|

Installation | Cable

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|--|-----------------------------------|
| Cable identification | 791 |
| Function cable | Data |
| Stranding | 1 × Wires |
| Cable shielding (type) | copper braid, tinned |
| Cable shielding (coverage) | 85 % |
| Banding | Fiber tape, Fleece, Foil |
| Filler | Yes |
| Cable weight | 34 g/m |
| Material wire insulation | PP |
| Amount wires | 4 |
| Outer diameter insulation | 1,04 mm |
| Outer diameter tolerance core insulation | ± 0,05 mm |
| Shore hardness wire insulation | 55 ± 3 Shore D |
| Ingredient freeness wire insulation | lead-free, CFC-free, halogen-free |
| Amount strands (wire) | 19 |
| Diameter of single wires | 38 AWG |
| Conductor crosssection (wire) | 26 AWG |
| Material conductor wire | Stranded copper wire, bare |
| Outer-diameter (jacket) | 4,9 mm |
| Tolerance outer diameter (sheath) | ± 5 % |
| Material jacket | PUR |
| Shore hardness jacket | 90 ± 3 Shore A |
| Freedom from ingredients (jacket) | lead-free, CFC-free, halogen-free |
| Conductor resistance (wire) | 140 Ω/km |
| Electric capacitance | 51.000 pF/km |
| Isolation resistance | 5.000 MΩ × km |
| Nominal voltage max. | 125 V |
| Withstand voltage (wire - wire) | 0.7 kV @ 60 s |
| Withstand voltage (wire - jacket) | 0.7 kV @ 60 s |
| Withstand voltage (wire - shield) | 0.7 kV @ 60 s |
| Current load capacity (standard) | to DIN VDE 0298-4 |
| Current load capacity max. (wire) | 2,4 A |
| Characteristic impedance | 100 Ω 15 MHz |
| Operating temperature min. (static) | -40 °C |
| Operating temperature max. (static) | 80 °C |
| Operating temperature min. (dynamic) | -30 °C |
| Operating temperature max. (dynamic) | 70 °C |
| Bending radius (fixed) | 7.5 × Outer diameter |
| Bending radius (dynamic) | 12.5 × Outer diameter |
| No. of bending cycles (C-track) | 5 Mio. @ 25 °C |
| Traversing distance (C-track) | 5 m @ 25 °C |

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|------------------------|----------------------------|
| Travel speed (C-track) | 3 m/s @ 25 °C |
| Acceleration (C-track) | 5 m/s ² @ 25 °C |
