

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

PUR 1x4xAWG22 shielded gn UL/CSA 0.5m

Art.No.: 7000-44621-7940050

Weight: 0.060 kg

Country of origin: DE

Model designation: MSRAL0-DB-T794\_0.5-ZS

Ethernet CAT5

Female straight – male straight

M12 – RJ45, 4-pole

D-coded

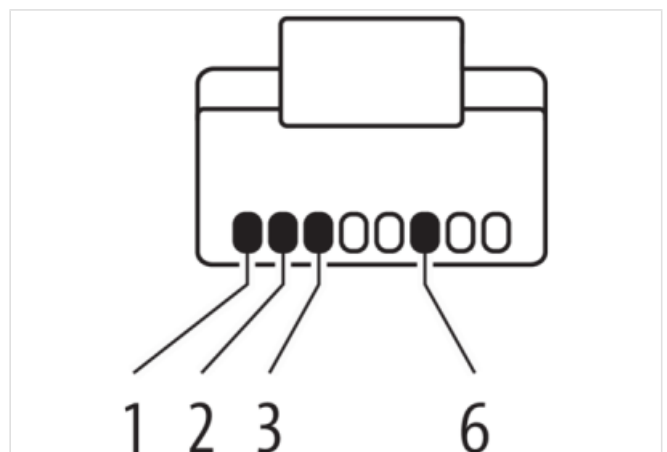
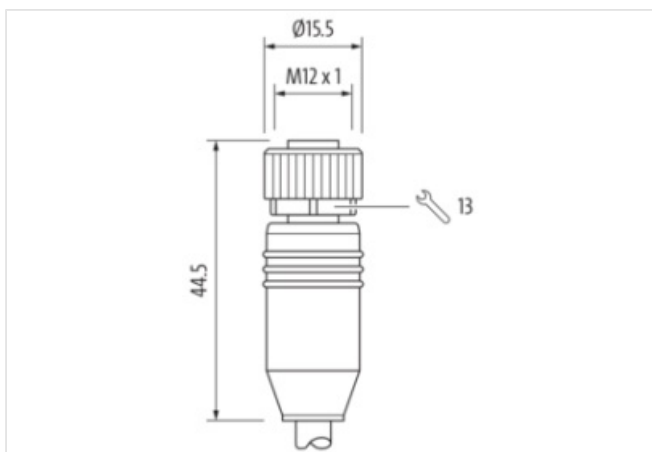
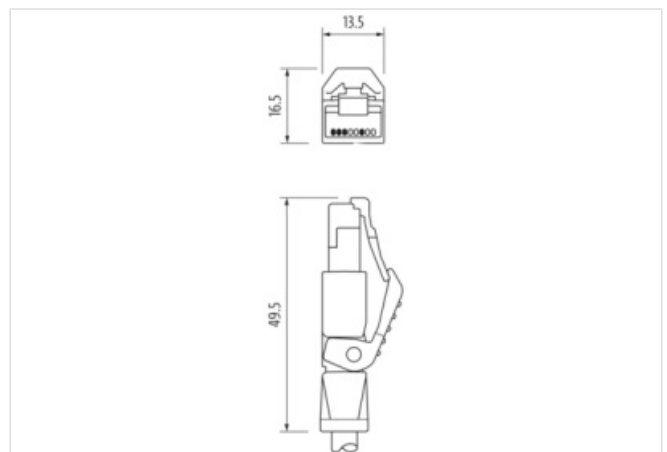
Shielded

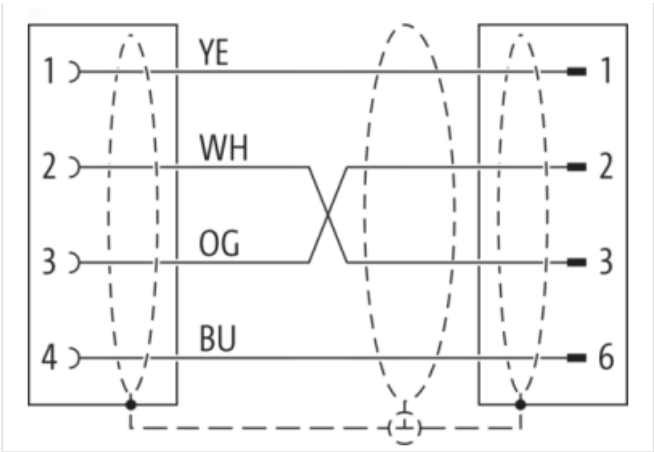
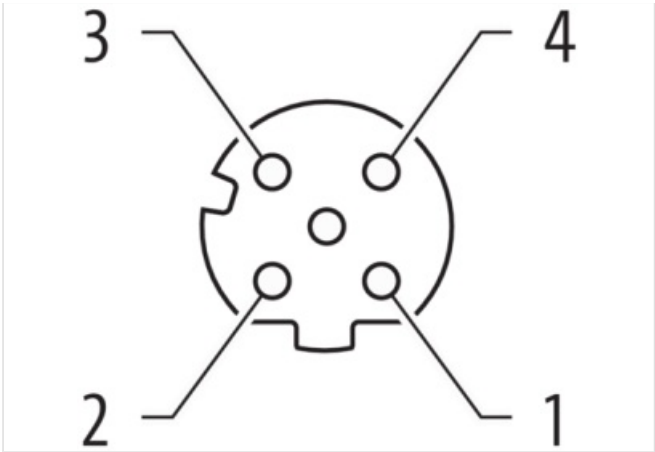
Transmission properties with channel transmission up to 100 m

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-T794_0.5-ZS |
| Cable length                        | 0,50 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           | <a href="https://shop.murrelektronik.com/7000-44621-7940050">https://shop.murrelektronik.com/7000-44621-7940050</a> |
| GTIN                  | 4048879680523                                                                                                       |
| 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                   | 4048879680523                                                                                                       |
| Packaging unit        | 1                                                                                                                   |

#### Electrical data | Supply

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

#### Industrial Communication

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

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

#### Mechanical data | Material data

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

Material gasket FKM

#### 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 | <b>Attention:</b> 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 61076-2-101 (M12), EN IEC 60603-7 (RJ45) |
|------------------|-------------------------------------------------|

#### Installation | Cable

|                                                 |                                                                |
|-------------------------------------------------|----------------------------------------------------------------|
| Cable identification                            | 794                                                            |
| Function cable                                  | Data                                                           |
| Stranding                                       | 1 × 4 wires around core filler star-shaped twisted             |
| Cable shielding (type)                          | copper braid, tinned                                           |
| Cable shielding (coverage)                      | 85 %                                                           |
| Banding                                         | Fleece, Foil                                                   |
| Filler                                          | Yes                                                            |
| Cable weight                                    | 68,97 g/m                                                      |
| Material wire insulation                        | PE                                                             |
| Amount wires                                    | 4                                                              |
| Outer diameter insulation                       | 1,55 mm                                                        |
| Outer diameter tolerance core insulation        | ± 0,05 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                        | 30 AWG                                                         |
| Conductor crosssection (wire)                   | 22 AWG                                                         |
| Material conductor wire                         | Stranded copper wire, bare                                     |
| Outer-diameter (jacket)                         | 6,7 mm                                                         |
| Tolerance outer diameter (sheath)               | ± 5 %                                                          |
| Material jacket                                 | PUR                                                            |
| Shore hardness jacket                           | 89 ± 5 Shore A                                                 |
| Freedom from ingredients (jacket)               | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Material property (jacket)                      | abrasion-resistant, low adhesion, good machinability, matte    |
| Material inner jacket                           | FRNC                                                           |
| Color (inner jacket)                            | white                                                          |
| Conductor resistance (wire)                     | 55.4 Ω/km @ 20 °C                                              |
| Electrical capacity line constant (wire - wire) | 52.000 pF/km                                                   |
| Isolation resistance                            | 5.000 MΩ × km                                                  |
| Nominal voltage max.                            | 300 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)               | 4,8 A                                                          |
| Characteristic impedance                        | 100 Ω ± 15 %                                                   |
| Operating temperature min. (static)             | -40 °C                                                         |
| Operating temperature max. (static)             | 80 °C                                                          |
| Operating temperature min. (dynamic)            | -20 °C                                                         |
| Operating temperature max. (dynamic)            | 60 °C                                                          |
| Flame resistance                                | UL 1581 § 1060, UL 1581 § 1090, UL 1581 § 1100                 |

|                          |                                                                         |
|--------------------------|-------------------------------------------------------------------------|
| Oil resistance           | IEC 60811-404, NEMA WC55, IRM 901, IRM 902                              |
| Ozone resistance         | IEC 60811-403                                                           |
| UV resistance            | UL 1581 § 1200                                                          |
| Other resistances        | resistant to hydrolysis, resistant to microbes, MUD-resistant (NEK 606) |
| Bending radius (fixed)   | 6 × Outer diameter                                                      |
| Bending radius (dynamic) | 12 × Outer diameter                                                     |