

**M8 male 0° A-cod. / RJ45 male 0° shielded**

PUR 1x4xAWG26 shielded gn UL/CSA+drag ch. 2m

Art.No.: 7000-89721-7910200

Weight: 0.136

Country of origin: DE

Model designation: MSRAL0-H-\*791\_2.0

Male straight – male straight

M8, 4-pole – RJ45, 8/4-pole

shielded

Cable sleeve

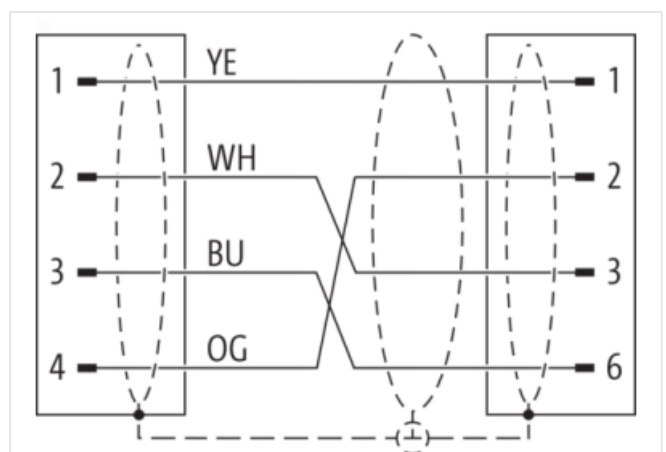
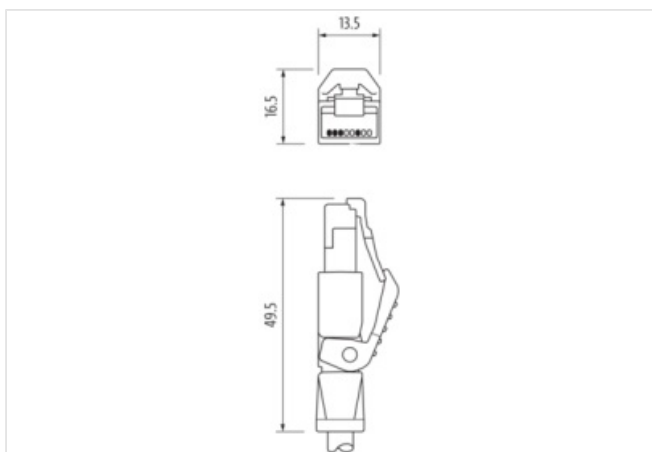
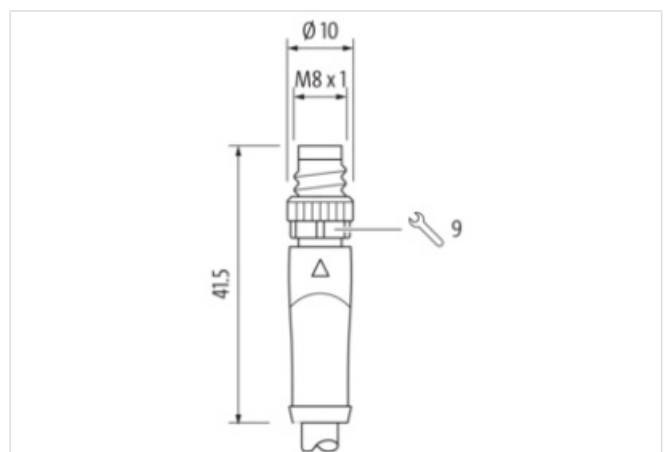
Ethernet CAT5

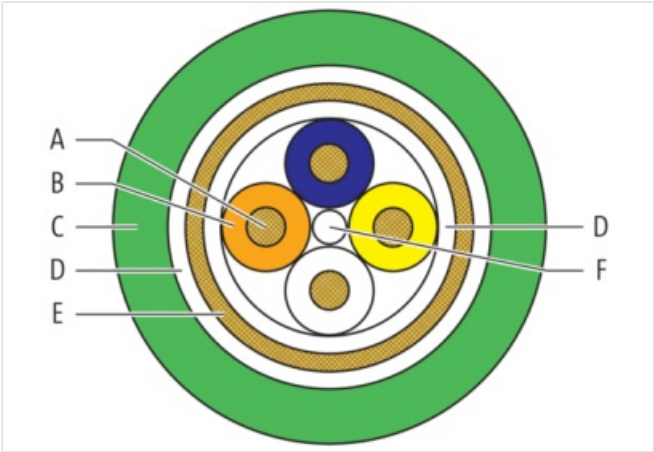
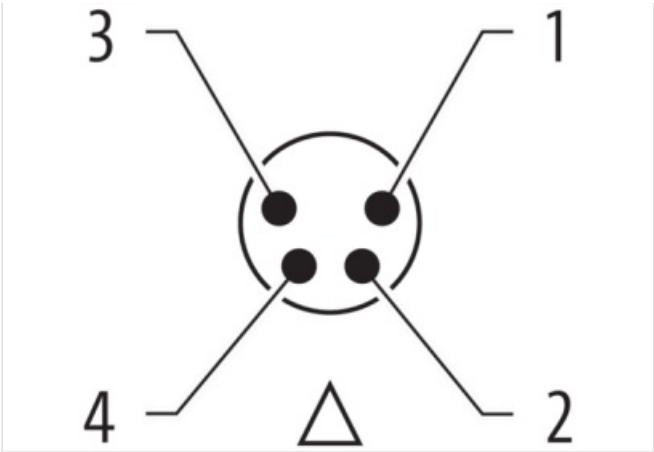
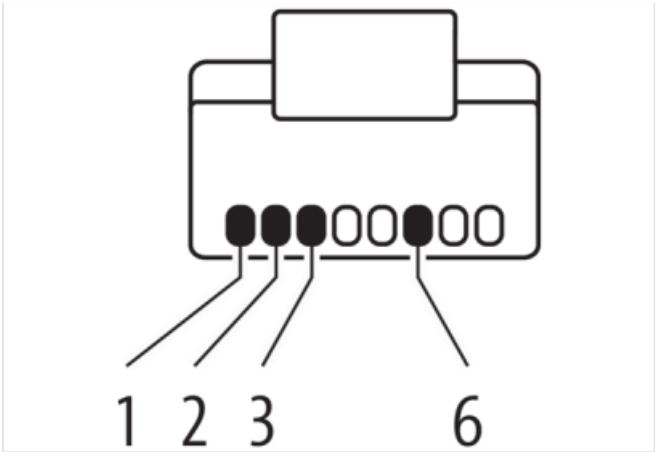
Contour for corrugated tube inner diameter 6.5 mm

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-H\*791\_2.0

Cable length 2,00 m

Side 1

|                                           |                              |
|-------------------------------------------|------------------------------|
| Family construction form                  | M8                           |
| No. of poles                              | 4                            |
| Coding                                    | A                            |
| Gender                                    | male                         |
| Mounting method                           | pluggable, inserted, screwed |
| Thread                                    | M8 x 1                       |
| Tightening torque                         | 0,4 Nm                       |
| Width across flats                        | SW9                          |
| Cable outlet                              | straight                     |
| suitable for corrugated tube (internal Ø) | 8,5 mm                       |
| Degree of protection (EN IEC 60529)       | IP67, IP66K, IP65            |

**Side 2**

|                                     |           |
|-------------------------------------|-----------|
| Family construction form            | RJ45      |
| No. of poles                        | 4         |
| Mounting method                     | pluggable |
| Cable outlet                        | straight  |
| Degree of protection (EN IEC 60529) | IP20      |

**Commercial data**

|                       |                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------|
| URL Webshop           | <a href="https://shop.murrelektronik.com/7000-89721-7910200">https://shop.murrelektronik.com/7000-89721-7910200</a> |
| GTIN                  | 4048879548144                                                                                                       |
| 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                   | 4048879548144                                                                                                       |
| Packaging unit        | 1                                                                                                                   |

**Electrical data | Supply**

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

**Industrial communication**

|                     |                                                  |
|---------------------|--------------------------------------------------|
| Transfer parameters | CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1) |
|---------------------|--------------------------------------------------|

**Device protection | Electrical**

|                              |      |
|------------------------------|------|
| Pollution Degree             | 3    |
| Rated surge voltage          | 1 kV |
| Material group (IEC 60664-1) | I    |

**Mechanical data | Material data**

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: 2025-11-19

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|                                                 |                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material housing                                | PUR                                                                                                                                                   |
| Color housing                                   | Black                                                                                                                                                 |
| Color contact carrier                           | green                                                                                                                                                 |
| Locking material                                | Brass                                                                                                                                                 |
| Coating locking                                 | nickel plated                                                                                                                                         |
| <b>Mechanical data   Mounting data</b>          |                                                                                                                                                       |
| Mounting method                                 | inserted, screwed, Shaking protection                                                                                                                 |
| <b>Environmental characteristics   Climatic</b> |                                                                                                                                                       |
| Operating temperature min.                      | -30 °C                                                                                                                                                |
| Operating temperature max.                      | 85 °C                                                                                                                                                 |
| Additional condition temperature range          | depending on cable quality                                                                                                                            |
| <b>Important installation notes</b>             |                                                                                                                                                       |
| 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.                                                   |
| <b>Conformity</b>                               |                                                                                                                                                       |
| Product standard                                | EN/IEC 61076-2-104 (M8), EN IEC 60603-7 (RJ45)                                                                                                        |
| <b>Installation   Cable</b>                     |                                                                                                                                                       |
| Cable identification                            | 791                                                                                                                                                   |
| Function cable                                  | Data                                                                                                                                                  |
| Amount stranding                                | 1                                                                                                                                                     |
| Stranding                                       | 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             | CFC-free, halogen-free, lead-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)               | CFC-free, halogen-free, lead-free                                                                                                                     |
| Conductor resistance (wire)                     | 140 Ω/km                                                                                                                                              |
| Electric capacitance                            | 51.000 pF/km                                                                                                                                          |
| Isolation resistance                            | 5.000 MΩ × km                                                                                                                                         |
| Nominal voltage AC 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 min. wire                 | 2,4 A                                                                                                                                                 |
| Characteristic impedance                        | 100 Ω 15 MHz                                                                                                                                          |

|                                      |                            |
|--------------------------------------|----------------------------|
| Min. operating temperature (static)  | -40 °C                     |
| Max. operating temperature (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                |
| Travel speed (C-track)               | 3 m/s @ 25 °C              |
| Acceleration (C-track)               | 5 m/s <sup>2</sup> @ 25 °C |