

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

PUR 1x4xAWG26 shielded gn UL/CSA+drag ch. 50m

Art.No.: 7000-89721-7915000

Weight: 2.987

Country of origin: DE

Model designation: MSRAL0-H-\*791\_50.0

Ethernet CAT5

Male straight – male straight

M8, 4-pole – RJ45, 8/4-pole  
shielded

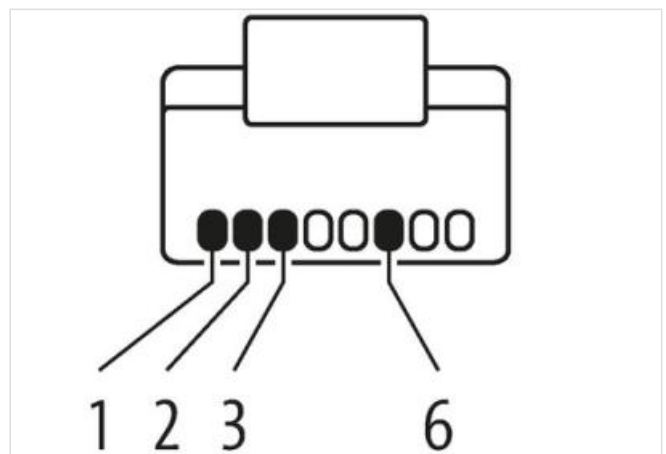
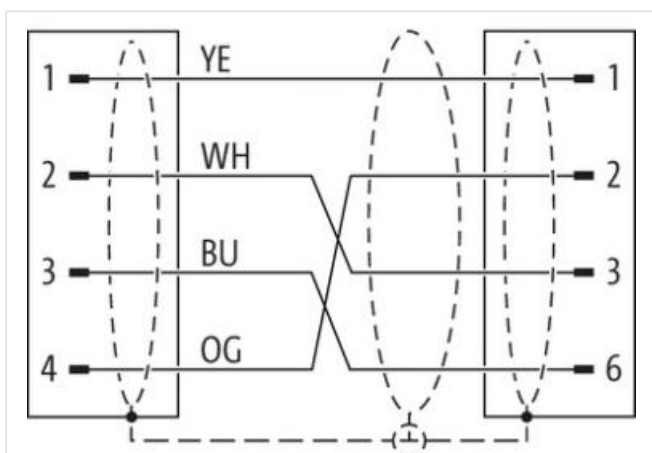
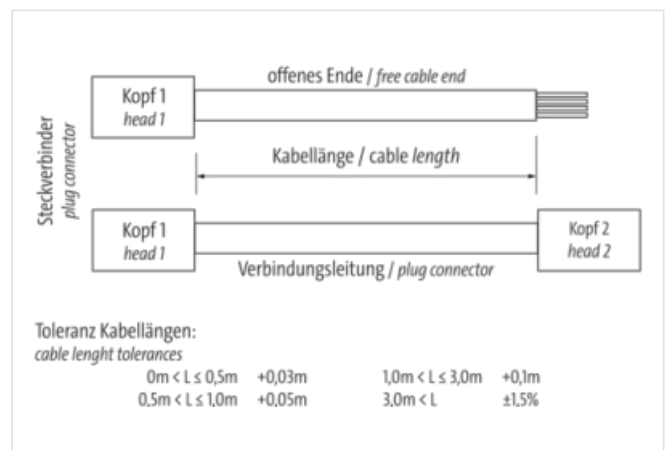
Cable sleeve

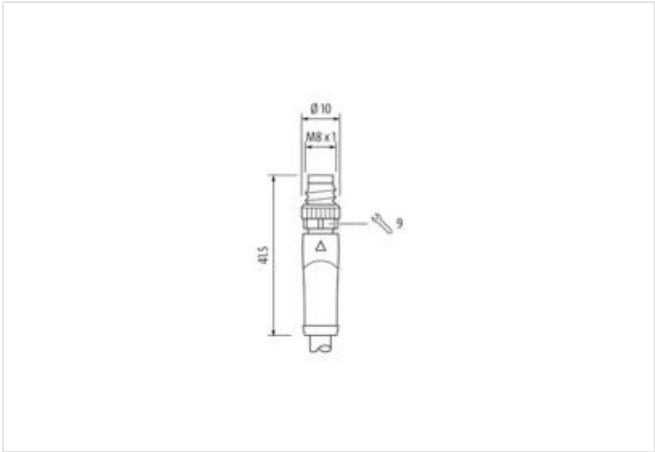
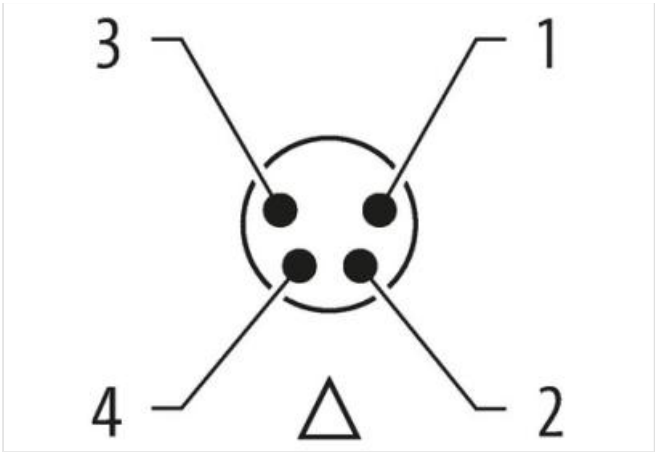
Contour for corrugated tube inner diameter 6.5 mm

Further cable lengths on request.

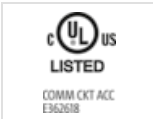
Plastic housings with good resistance against chemicals and oils.

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



Cable length 50 m

Side 1

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

Side 2

|                                     |           |
|-------------------------------------|-----------|
| Mounting method                     | pluggable |
| Family construction form            | RJ45      |
| Cable outlet                        | straight  |
| Degree of protection (EN IEC 60529) | IP20      |

Commercial data

|                       |               |
|-----------------------|---------------|
| ECLASS-6.0            | 27061801      |
| ECLASS-6.1            | 27060307      |
| ECLASS-7.0            | 27060307      |
| ECLASS-8.0            | 27060307      |
| ECLASS-9.0            | 27060307      |
| ECLASS-10.1           | 27060307      |
| ECLASS-11.1           | 27060307      |
| ECLASS-12.0           | 27060307      |
| ETIM-5.0              | EC002599      |
| customs tariff number | 85444290      |
| customs tariff number | 85444290      |
| EAN                   | 4048879421874 |
| EAN                   | 4048879421874 |
| Packaging unit        | 1             |
| 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

|                       |               |
|-----------------------|---------------|
| Material housing      | PUR           |
| Color housing         | black         |
| Coating locking       | nickel plated |
| Color contact carrier | green         |
| Locking material      | Brass         |

#### Mechanical data | Mounting data

|                 |                                       |
|-----------------|---------------------------------------|
| Mounting method | inserted, screwed, Shaking protection |
|-----------------|---------------------------------------|

#### Environmental characteristics | Climatic

|                                        |                            |
|----------------------------------------|----------------------------|
| Operating temperature min.             | -25 °C                     |
| Operating temperature max.             | 85 °C                      |
| Additional condition temperature range | depending on cable quality |

#### Important installation notes

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

#### Conformity

|                  |                                             |
|------------------|---------------------------------------------|
| Product standard | DIN EN 61076-2-104 (M8); IEC 60603-7 (RJ45) |
|------------------|---------------------------------------------|

#### Installation | Cable

|                      |                             |
|----------------------|-----------------------------|
| wire arrangement     | orange, blue, yellow, white |
| Cable identification | 791                         |
| Function cable       | Data                        |
| Jacket Color         | green                       |
| Type of Certificate  | cURus                       |
| Amount stranding     | 1                           |
| Stranding            | 4 wires star-shaped twisted |

|                                                   |                                                      |
|---------------------------------------------------|------------------------------------------------------|
| Cable shielding (type)                            | copper braid, tinned                                 |
| Cable shielding (coverage)                        | 85 %                                                 |
| Banding                                           | Fiber tape, Fleece, Foil                             |
| Filler                                            | yes                                                  |
| wire arrangement                                  | orange, blue, yellow, white                          |
| Cable weight                                      | 59,4 g/m                                             |
| Material jacket                                   | PUR                                                  |
| Freedom from ingredients (jacket)                 | lead-free, CFC-free, halogen-free                    |
| Outer-diameter (jacket)                           | 4,9 mm                                               |
| Tolerance outer diameter (sheath)                 | ± 5 %                                                |
| Material wire insulation                          | PP                                                   |
| Amount wires                                      | 4                                                    |
| Outer diameter insulation                         | 1,04 mm                                              |
| Outer diameter tolerance core insulation          | ± 5 %                                                |
| 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                           |
| Nominal voltage AC max.                           | 125 V                                                |
| Current load capacity (standard)                  | to DIN VDE 0298-4                                    |
| Current load capacity min. wire                   | 2,4 A                                                |
| Characteristic impedance                          | 100 Ω ± 15 % @ 100 MHz                               |
| Electrical resistance line constant wire          | 140 Ω/km                                             |
| AC withstand voltage (wire - wire)                | 0,7 kV @ 60 s                                        |
| Electric capacitance                              | 51000 pF/km                                          |
| Power frequency withstand voltage (wire - jacket) | 0,7 kV @ 60 s                                        |
| AC withstand voltage (wire - shield)              | 0,7 kV @ 60 s                                        |
| Isolation resistance                              | 5000 MΩ × km                                         |
| Min. operating temperature (static)               | -40 °C                                               |
| Max. operating temperature (fixed)                | 80 °C                                                |
| Operating temperature min. (dynamic)              | -30 °C                                               |
| Operating temperature max. (dynamic)              | 70 °C                                                |
| Flame resistance                                  | IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090  |
| chemical resistance                               | Good, application-related testing                    |
| Gasoline resistance                               | Good, application-related testing                    |
| Oil resistance                                    | DIN EN 60811-404   Good, application-related testing |
| Bending radius (fixed)                            | 7,5 x Outer diameter                                 |
| Bending radius (dynamic)                          | 12,5 x 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                                        |