

**M12 female 0° A-cod. / RJ 45 male 0° shielded**

TPE 4x2x24AWG SF/UTP CAT5e bu UL/CSA. CM 0.45m

Art.No.: 7700-48701-S4W0045

Weight: 0.059

Country of origin: DE

Model designation: MSBL0-RA-08DS4W\_0.45-ZS

Ethernet CAT5e

M12 – RJ45, 8-pole

Female straight – male straight

Special assignment

shielded

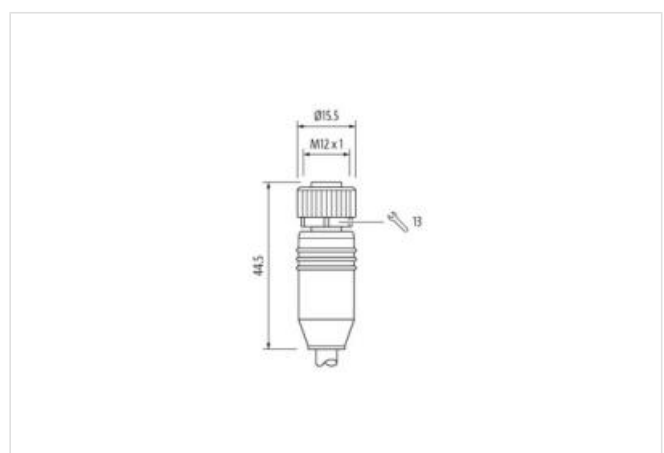
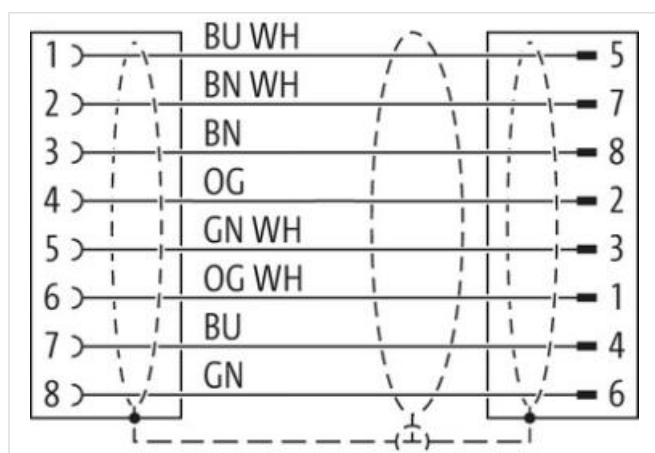
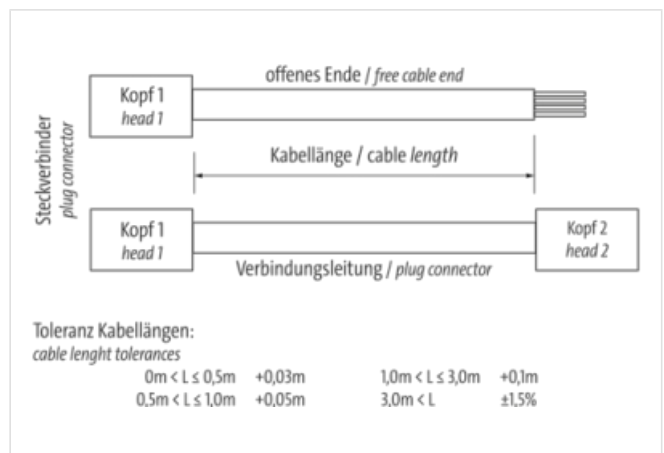
Transmission properties at channel transmission upto 90m

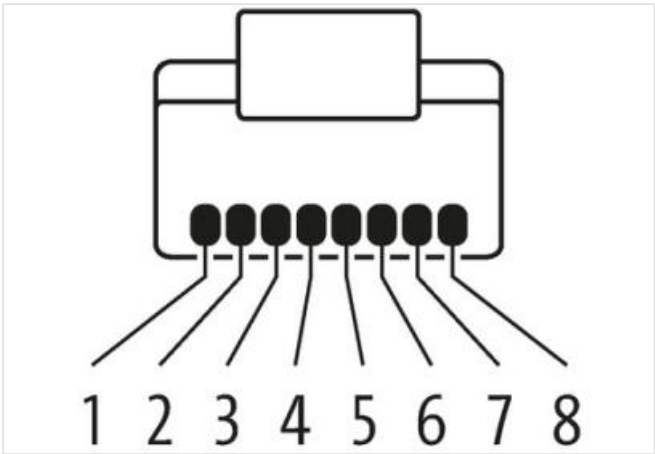
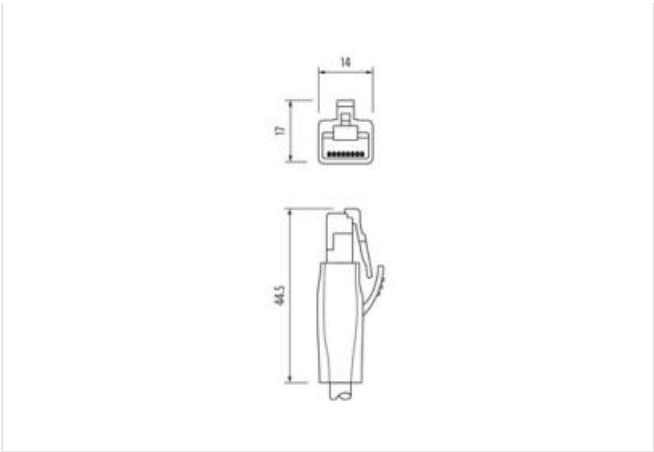
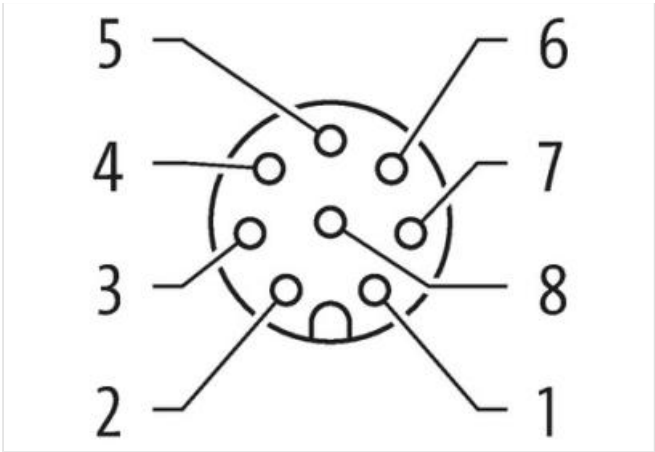
Cable is approved for 600 V

Plastic housings with good resistance against chemicals and oils.

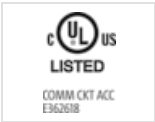
The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

[Link to Product](#)**Illustration**



Product may differ from Image



Cable length 0,45 m

Side 1

|                                     |                    |
|-------------------------------------|--------------------|
| Tightening torque                   | 0,6 Nm             |
| Mounting method                     | screwed, pluggable |
| Coating contact                     | gold plated        |
| Family construction form            | M12                |
| Thread                              | M12 x 1            |
| Gender                              | female             |
| Cable outlet                        | straight           |
| Coding                              | A                  |
| Material contact                    | Copper alloy       |
| Material                            | PUR                |
| No. of poles                        | 8                  |
| Width across flats                  | SW13               |
| Degree of protection (EN IEC 60529) | IP65, IP67         |

Side 2

|                          |           |
|--------------------------|-----------|
| Mounting method          | pluggable |
| Family construction form | RJ45      |

|                                                 |                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gender                                          | male                                                                                                                                                  |
| Cable outlet                                    | straight                                                                                                                                              |
| No. of poles                                    | 8                                                                                                                                                     |
| Degree of protection (EN IEC 60529)             | IP20                                                                                                                                                  |
| <b>Commercial data</b>                          |                                                                                                                                                       |
| 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                                                                                                                                              |
| ETIM-6.0                                        | EC002599                                                                                                                                              |
| ETIM-7.0                                        | EC002599                                                                                                                                              |
| ETIM-8.0                                        | EC002599                                                                                                                                              |
| customs tariff number                           | 85444290                                                                                                                                              |
| EAN                                             | 4048879749305                                                                                                                                         |
| Packaging unit                                  | 1                                                                                                                                                     |
| <b>Electrical data   Supply</b>                 |                                                                                                                                                       |
| Operating voltage DC max.                       | 60 V                                                                                                                                                  |
| Current operating per contact max.              | 1,5 A                                                                                                                                                 |
| <b>Industrial communication</b>                 |                                                                                                                                                       |
| Transfer parameters                             | CAT5e                                                                                                                                                 |
| Data transmission rate max.                     | 1 GBit/s                                                                                                                                              |
| <b>Device protection   Electrical</b>           |                                                                                                                                                       |
| Additional condition protection degree          | inserted, screwed, in closed state                                                                                                                    |
| Pollution Degree                                | 3                                                                                                                                                     |
| Rated surge voltage                             | 0,8 kV                                                                                                                                                |
| Material group (IEC 60664-1)                    | I                                                                                                                                                     |
| <b>Mechanical data</b>                          |                                                                                                                                                       |
| Contour for corrugated hose                     | without                                                                                                                                               |
| <b>Mechanical data   Material data</b>          |                                                                                                                                                       |
| Locking material                                | PA, Zinc die-casting                                                                                                                                  |
| <b>Mechanical data   Mounting data</b>          |                                                                                                                                                       |
| Mounting method                                 | inserted, screwed, Shaking protection                                                                                                                 |
| <b>Environmental characteristics   Climatic</b> |                                                                                                                                                       |
| Operating temperature min.                      | -25 °C                                                                                                                                                |
| Operating temperature max.                      | 85 °C                                                                                                                                                 |
| Additional condition temperature range          | depending on cable quality                                                                                                                            |
| <b>Important installation notes</b>             |                                                                                                                                                       |
| 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. |
| <b>Conformity</b>                               |                                                                                                                                                       |
| Product standard                                | DIN EN 61076-2-101 (M12), according to IEC 60603-7 (RJ45)                                                                                             |
| <b>Installation   Cable</b>                     |                                                                                                                                                       |
| wire arrangement                                | (orange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green)                                                                |
| Cable identification                            | S4W                                                                                                                                                   |

|                                          |                                                                                        |
|------------------------------------------|----------------------------------------------------------------------------------------|
| Jacket Color                             | blue                                                                                   |
| Type of Certificate                      | cURus                                                                                  |
| Amount stranding                         | 4                                                                                      |
| Stranding                                | 2 wires twisted                                                                        |
| Amount stranding (type 2)                | 1                                                                                      |
| Stranding (type 2)                       | 4 Stranded joints twisted                                                              |
| Banding                                  | Foil                                                                                   |
| wire arrangement                         | (orange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green) |
| Cable weight                             | 74,8 g/m                                                                               |
| Material jacket                          | TPE                                                                                    |
| Freedom from ingredients (jacket)        | lead-free, CFC-free                                                                    |
| Outer-diameter (jacket)                  | 7,6 mm                                                                                 |
| Tolerance outer diameter (sheath)        | ± 5 %                                                                                  |
| Material wire insulation                 | HDPE                                                                                   |
| Amount wires                             | 8                                                                                      |
| Outer diameter insulation                | 1,17 mm                                                                                |
| Outer diameter tolerance core insulation | ± 5 %                                                                                  |
| Ingredient freeness wire insulation      | lead-free, CFC-free                                                                    |
| Amount strands (wire)                    | 7                                                                                      |
| Diameter of single wires                 | 24 AWG                                                                                 |
| Conductor crosssection (wire)            | 24 AWG                                                                                 |
| Material conductor wire                  | copper stranded wire, tinned                                                           |
| Nominal voltage AC max.                  | 600 V                                                                                  |
| Current load capacity (standard)         | to DIN VDE 0298-4                                                                      |
| Current load capacity min. wire          | 2 A                                                                                    |
| Electrical resistance line constant wire | 76,4 Ω/km @ 20 °C                                                                      |
| Min. operating temperature (static)      | -40 °C                                                                                 |
| Max. operating temperature (fixed)       | 80 °C                                                                                  |
| Operating temperature min. (dynamic)     | -40 °C                                                                                 |
| Operating temperature max. (dynamic)     | 80 °C                                                                                  |
| Storage temperature min.                 | -40 °C                                                                                 |
| Storage temperature max.                 | 80 °C                                                                                  |
| Flame resistance                         | UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2                                    |
| 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)                   | 4 x Outer diameter                                                                     |
| Bending radius (dynamic)                 | 10 x Outer diameter                                                                    |
| No. of bending cycles (C-track)          | 1 Mio. @ 25 °C                                                                         |
| No. of torsion cycles                    | 3 Mio. 25 °C                                                                           |
| Torsion stress                           | ± 270 °/m                                                                              |