

**M12 male 0° D-cod. / M8 male 0° A-cod. shielded**

PUR 1x4xAWG26 shielded gn UL/CSA+drag ch. 10m

Art.No.: 7000-44901-7911000

Weight: 0.569

Country of origin: DE

Model designation: MSDAL0-H-T791\_10.0-ZE

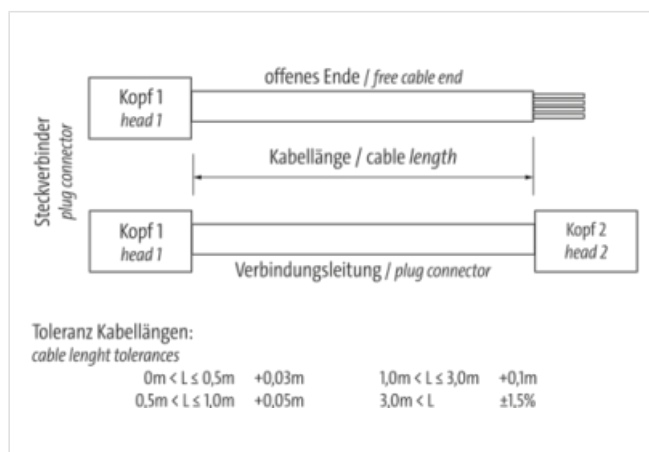
**Advantages of our connectors:**

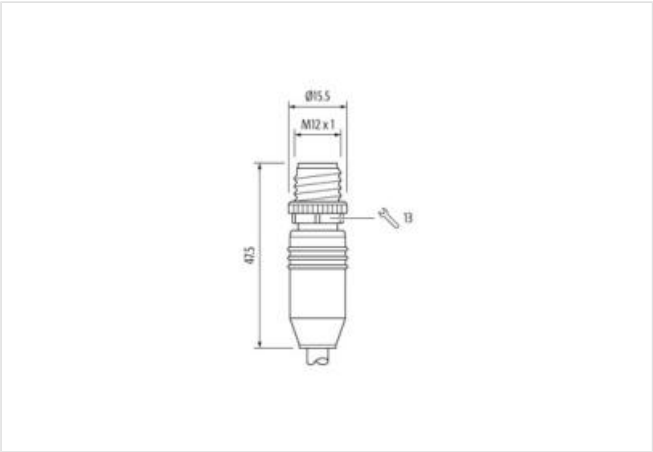
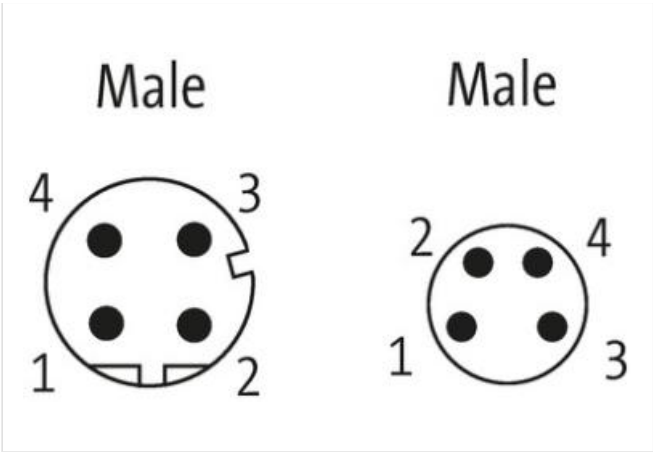
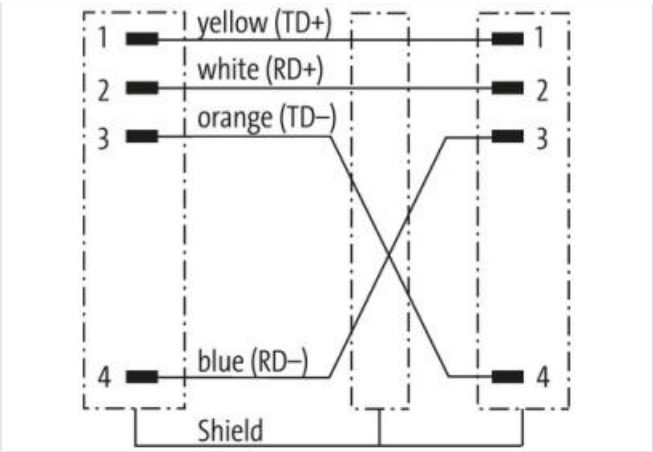
Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

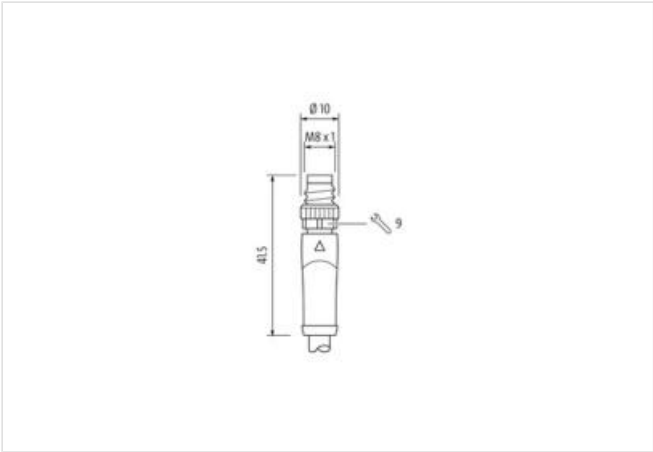
Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available [on request](#)

If you are missing technical information? Please feel free to use our [dictionary](#) to find more technical details.

**Product details:****EtherCAT****Male straight – male straight****M12 – M8, 4-pole****D-coded****shielded****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                              | 10 m     |
| Side 1                                    |          |
| Tightening torque                         | 0,6 Nm   |
| Family construction form                  | M12      |
| Thread                                    | M12 x 1  |
| Coding                                    | D        |
| Material                                  | PUR      |
| Width across flats                        | SW13     |
| Side 2                                    |          |
| Tightening torque                         | 0,4 Nm   |
| Family construction form                  | M8       |
| Thread                                    | M8 x 1   |
| suitable for corrugated tube (internal Ø) | 8,5 mm   |
| Coding                                    | A        |
| Material                                  | PUR      |
| Width across flats                        | SW9      |
| 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   | EC001855   |
| ETIM-6.0   | EC001855   |
| ETIM-7.0   | EC001855   |
| ETIM-8.0   | EC001855   |
| customs tariff number                                    | 85444290   |
| customs tariff number                                    | 85444290   |
| EAN  | 4048879451703  |
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| Packaging unit   | 1  |
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| <b>Electrical data   Supply</b>                          |  |
| Operating voltage DC max.                                | 60 V   |
| Operating voltage DC max. (UL-listed)                    | 30 V   |
| Current operating per contact max.                       | 4 A  |
| <b>Industrial communication</b>                          |  |
| Transfer parameters                                      | CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)   |
| Data transmission rate max.                              | 100 MBit/s   |
| <b>Industrial communication   Ethernet functionality</b> |  |
| duplex   | Full duplex  |
| <b>Device protection   Electrical</b>                    |  |
| Degree of protection (EN IEC 60529)                      | IP67   |
| Additional condition protection degree                   | inserted, screwed  |
| Pollution Degree   | 3  |
| Rated surge voltage                                      | 1,5 kV   |
| Material group (IEC 60664-1)                             | I  |
| <b>Mechanical data   Material data</b>                   |  |
| Coating locking  | Nickeled   |
| Locking material   | 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                                   | Attention: 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), DIN EN 61076-2-114 (M8)  |
| <b>Installation   Cable</b>                              |  |
| 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  |