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

TPE 2x2x24AWG SF/UTP CAT5e bu UL/CSA. CM 7.5m

Art.No.: 7700-44511-S4U0750
Weight: 0.408
Country of origin: US
Model designation: MSDAL0-DA-TS4U_7.5-ZS

**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.

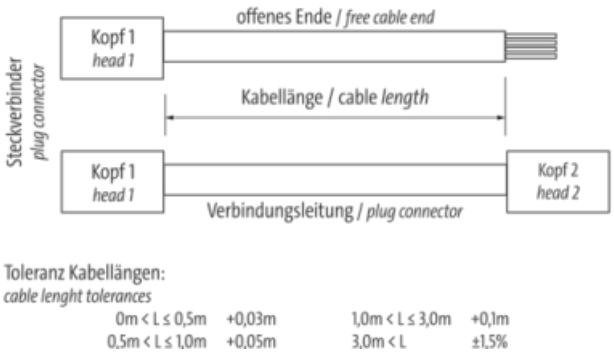
Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available on request

If you are missing technical information? Please feel free to use our dictionary to find more technical details.

**Product details:**
**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.**
**USA**
**Ethernet CAT5**
**Male straight – male straight**
**M12 – M12, 4-pole**
**D-coded**
**shielded**
**without cable sleeves**
**maximum length at channel transmission corresponds to 70 m**

## Link to Product

**Illustration**



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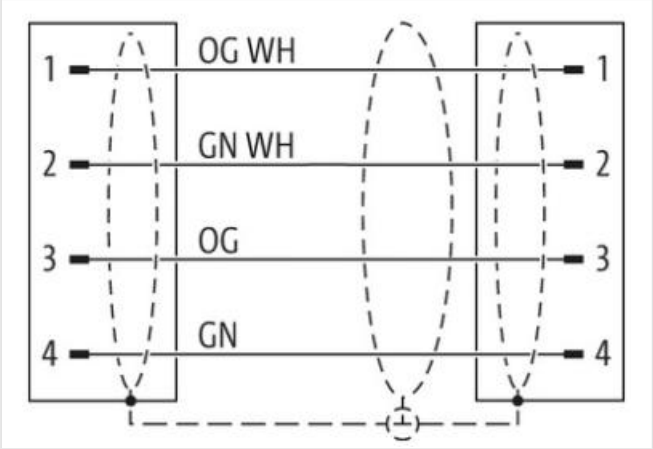
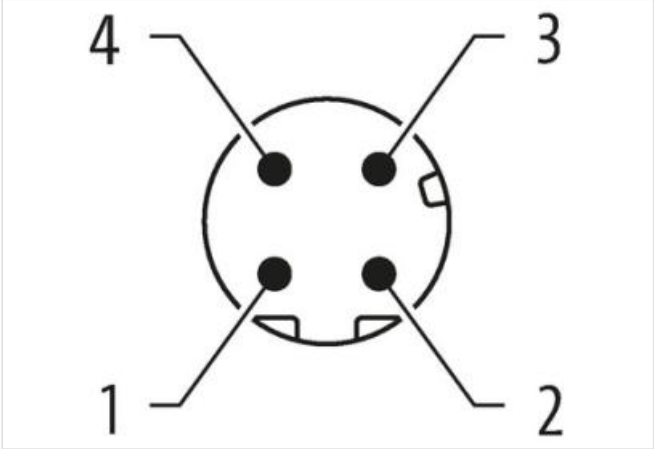
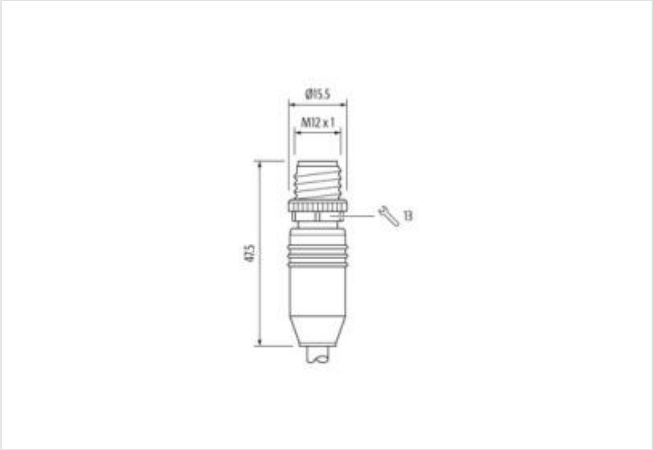
stay connected




**Product may differ from Image**

| | |
|---|---|
| **Cable length** | **7,5 m** |
| **Side 1** | |
| **Tightening torque** | **0,6 Nm** |
| **Mounting method** | **inserted, screwed** |
| **Family construction form** | **M12** |
| **Thread** | **M12 x 1** |
| **Cable outlet** | **straight** |
| **Coding** | **D** |
| **No. of poles** | **4** |
| **Width across flats** | **SW13** |
| **Side 2** | |
| **Tightening torque** | **0,6 Nm** |
| **Mounting method** | **inserted, screwed** |
| **Family construction form** | **M12** |
| **Thread** | **M12 x 1** |
| **Cable outlet** | **straight** |
| **Coding** | **D** |
| **No. of poles** | **4** |

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| | |
|---|---|
| Width across flats | SW13 |
| **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 | 4048879605885 |
| EAN | 4048879605885 |
| Packaging unit | 1 |
| Packaging unit | 1 |
| **Electrical data \| Supply** | |
| Operating voltage DC max. | 60 V |
| Current operating per contact (UL) | 1,5 A |
| Current operating per contact max. | 1,5 A |
| **Industrial communication** | |
| Transfer parameters | CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1) |
| Data transmission rate max. | 100 MBit/s |
| **Industrial communication \| Ethernet functionality** | |
| duplex | Full duplex |
| **Diagnostics** | |
| Status indication LED | no |
| **Installation \| Connection** | |
| Gender | male |
| **Device protection \| Electrical** | |
| Degree of protection (EN IEC 60529) | IP65, IP67, IP66K |
| Additional condition protection degree | inserted, screwed |
| Pollution Degree | 3 |
| Rated surge voltage | 1,5 kV |
| Material group (IEC 60664-1) | I |
| **Mechanical data** | |
| Contour for corrugated hose | without |
| **Mechanical data \| Material data** | |
| Material housing | PUR |
| Coating locking | Nickeled |
| Locking material | Zinc die-casting |
| **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** | |

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| | |
|---|---|
| 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. |
| **Conformity** | |
| Product standard | DIN EN 61076-2-101 (M12) |
| **Installation \| Cable** | |
| wire arrangement | (orange-white, orange), (green-white, green) |
| Cable identification | S4U |
| Function cable | Data |
| Jacket Color | teal |
| Type of Certificate | cURus |
| Amount stranding | 2 |
| Stranding | 2 wires twisted |
| Amount stranding (type 2) | 1 |
| Stranding (type 2) | 2 Stranded joints twisted |
| Cable shielding (type) | copper braid, tinned |
| Cable shielding (coverage) | 75 % |
| Banding | Foil |
| wire arrangement | (orange-white, orange), (green-white, green) |
| Cable length max. | 83 m |
| Cable weigth | 55,66 g/m |
| Material jacket | TPE |
| Freedom from ingredients (jacket) | lead-free, CFC-free |
| Outer-diameter (jacket) | 6,6 mm |
| Tolerance outer diameter (sheath) | ± 5 % |
| Material wire insulation | HDPE |
| Amount wires | 4 |
| Outer diameter insulation | 1,22 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 | 2,4 A |
| Characteristic impedance | 100 Ω @ 100 MHz |
| Electrical resistance line constant wire | 76,4 Ω/km @ 20 °C |
| AC withstand voltage (wire - wire) | 1,5 kV @ 2 s |
| Power frequency withstand voltage (wire - jacket) | 1,5 kV @ 2 s |
| Loop resistance | 280 Ω/km |
| 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) | 8 x Outer diameter |

| | |
|---|---|
| **Bending radius (dynamic)** | **8 x Outer diameter** |
| **No. of bending cycles (C-track)** | **35 Mio.** |
| **Traversing distance (C-track)** | **0,6 m** |
| **Travel speed (C-track)** | **1,2 m/s** |
| **No. of torsion cycles** | **3 Mio.** |
| **Torsion stress** | **± 270 °/m** |
| **Torsion speed** | **60 cycles/min** |