

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

TPE 22AWG SF/UTP CAT5e gn UL/CSA. ITC/PLTC 7.5m

Art.No.: 7700-44511-S7V0750

Weight: 0.540 kg

Country of origin: US

Model designation: MSDAL0-DA-TS7V\_7.5-ZS

USA

Ethernet CAT5

Male straight – male straight

M12 – M12, 4-pole

D-coded

Shielded

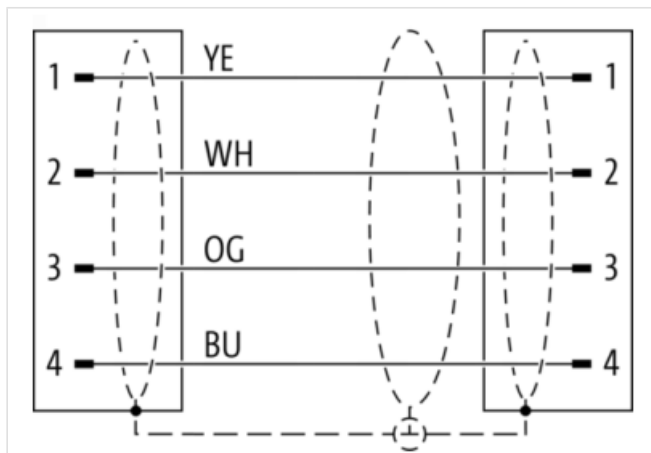
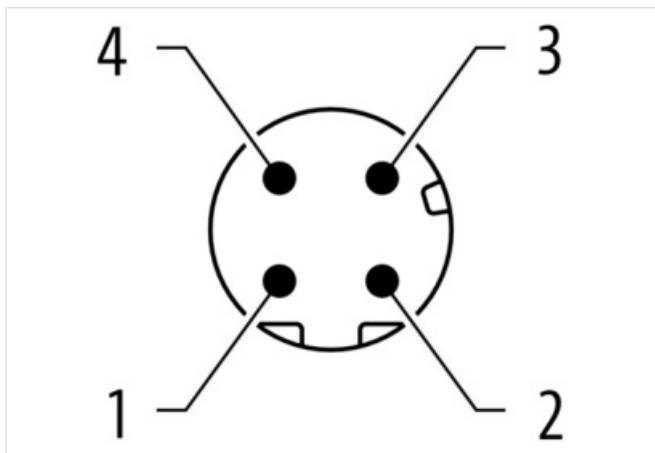
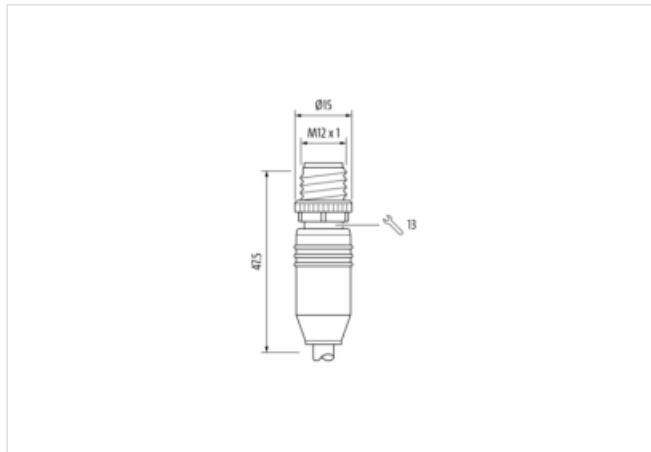
without cable sleeves

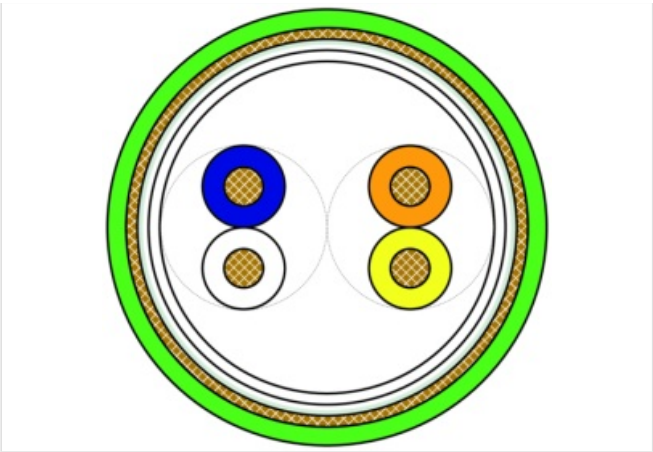
maximum length at channel transmission corresponds to 70 m

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                        | 7,50 m                                                                                                              |
| Side 1                              |                                                                                                                     |
| Family construction form            | M12                                                                                                                 |
| No. of poles                        | 4                                                                                                                   |
| Coding                              | D                                                                                                                   |
| Gender                              | male                                                                                                                |
| Mounting method                     | inserted, screwed                                                                                                   |
| Threaded hole                       | M12 x 1                                                                                                             |
| Tightening torque                   | 0,6 Nm                                                                                                              |
| Width across flats                  | SW13                                                                                                                |
| Cable outlet                        | straight                                                                                                            |
| Material contact                    | Copper alloy                                                                                                        |
| Coating contact                     | gold plated                                                                                                         |
| Degree of protection (EN IEC 60529) | IP65, IP66K, IP67                                                                                                   |
| Side 2                              |                                                                                                                     |
| Family construction form            | M12                                                                                                                 |
| No. of poles                        | 4                                                                                                                   |
| Coding                              | D                                                                                                                   |
| Gender                              | male                                                                                                                |
| Mounting method                     | inserted, screwed                                                                                                   |
| Threaded hole                       | M12 x 1                                                                                                             |
| Tightening torque                   | 0,6 Nm                                                                                                              |
| Width across flats                  | SW13                                                                                                                |
| Cable outlet                        | straight                                                                                                            |
| Material contact                    | Copper alloy                                                                                                        |
| Coating contact                     | gold plated                                                                                                         |
| Degree of protection (EN IEC 60529) | IP65, IP66K, IP67                                                                                                   |
| Commercial data                     |                                                                                                                     |
| URL Webshop                         | <a href="https://shop.murrelektronik.com/7700-44511-S7V0750">https://shop.murrelektronik.com/7700-44511-S7V0750</a> |
| GTIN                                | 4048879606004                                                                                                       |
| EU-Customs tariff number            | 85444290                                                                                                            |
| US-Customs tariff number            | 8544429090                                                                                                          |
| 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      |
| ETIM-9.0              | EC002599      |
| ETIM-10.0             | EC002599      |
| customs tariff number | 85444290      |
| EAN                   | 4048879606004 |
| Packaging unit        | 1             |

#### Electrical data | Supply

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

#### Industrial Communication

|                             |                                                  |
|-----------------------------|--------------------------------------------------|
| Data transmission rate max. | 100 Mbit/s                                       |
| Transfer parameters         | CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1) |

#### Industrial communication | Ethernet functionality

|        |             |
|--------|-------------|
| duplex | Full duplex |
|--------|-------------|

#### Diagnostics

|                       |    |
|-----------------------|----|
| Status indication LED | No |
|-----------------------|----|

#### Device protection | Electrical

|                                        |                   |
|----------------------------------------|-------------------|
| Degree of protection (EN IEC 60529)    | IP67, IP66K, IP65 |
| 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

|                    |                  |
|--------------------|------------------|
| housing            | PUR              |
| Color housing      | black            |
| Screw connection   | Zinc die-casting |
| Coating of fitting | nickel plated    |

#### Mechanical data | Mounting data

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

#### Environmental characteristics | Climatic

|                                        |                            |
|----------------------------------------|----------------------------|
| Operating temperature min.             | -30 °C                     |
| Operating temperature max.             | 85 °C                      |
| Additional condition temperature range | depending on cable quality |

#### Important installation notes

|                        |                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                   |

#### Conformity

|                  |                          |
|------------------|--------------------------|
| Product standard | EN IEC 61076-2-101 (M12) |
|------------------|--------------------------|

#### Installation | Cable

|                                     |                                           |
|-------------------------------------|-------------------------------------------|
| Cable identification                | S7V                                       |
| Function cable                      | Data                                      |
| Cable weight                        | 68 g/m                                    |
| UL AWM Style                        | 2463 / 758                                |
| Stranding                           | 2 × 2 wires stranded                      |
| Stranding (type 2)                  | 1 × 2 stranding combinations stranded     |
| Cable shielding (type)              | copper braid, tinned                      |
| Cable shielding (coverage)          | 75 %                                      |
| Banding                             | Foil                                      |
| Wire arrangement                    | (WH, BU), (OG, YE)                        |
| Shield                              | shielded                                  |
| Cable type                          | Industrial Ethernet Profinet Typ C, CAT5e |
| Material wire insulation            | HDPE                                      |
| Amount wires                        | 4                                         |
| Outer diameter insulation           | 1.47 mm ± 0.05 mm                         |
| Conductor crosssection (wire)       | 22 AWG                                    |
| Material conductor wire             | copper stranded wire, tinned              |
| Core construction (wire)            | 19 × 34 AWG                               |
| Ingredient freeness wire insulation | lead-free, CFC-free                       |
| Material jacket                     | TPE                                       |
| Outer-diameter (jacket)             | 7.87 mm ± 5 %                             |
| Jacket Color                        | green / RAL 6018                          |
| Freedom from ingredients (jacket)   | lead-free, CFC-free                       |
| Cable shielding (type)              | copper braid, tinned                      |
| Cable shielding (coverage)          | 75 %                                      |
| Conductor resistance (wire)         | 93.8 Ω/km @ 20 °C                         |
| Nominal voltage max.                | 600 V                                     |
| Current load capacity max. (wire)   | 4,8 A                                     |
| Current load capacity (standard)    | to DIN VDE 0298-4                         |
| Operating temperature (static)      | -40 °C ... 80 °C                          |
| Operating temperature (dynamic)     | -40 °C ... 80 °C                          |
| Oil resistance                      | UL 1277 (Oil Res II)                      |
| UV resistance                       | UL 444 § 7.22                             |
| Other resistances                   | resistant to welding sparks               |
| Notes                               | application-related testing               |
| Bending radius (fixed)              | 8 × Outer diameter                        |
| Bending radius (dynamic)            | 8 × Outer diameter                        |
| No. of bending cycles (C-track)     | 35 Mio. @ 25 °C                           |
| No. of torsion cycles               | 5 Mio.                                    |
| Torsion stress                      | ± 180 °/m                                 |