

M12 male 0° D-cod. / RJ45 male 0° shielded

TPE 2x2x24AWG SF/UTP CAT5e bu UL/CSA. CM 1.5m

Art.No.: 7700-44711-S4U0150

Weight: 0.100 kg

Country of origin: US

Model designation: MSRAL0-DA-TS4U_1.5-ZS

Ethernet CAT5

Male straight – male straight

M12 – RJ45, 4-pole

D-coded

Shielded

8-pole partly used

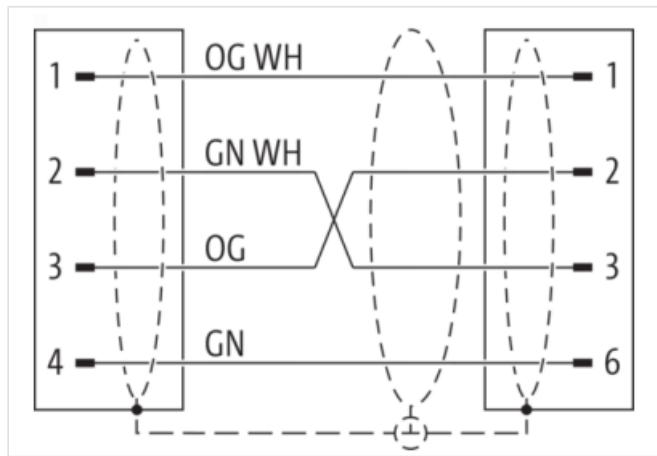
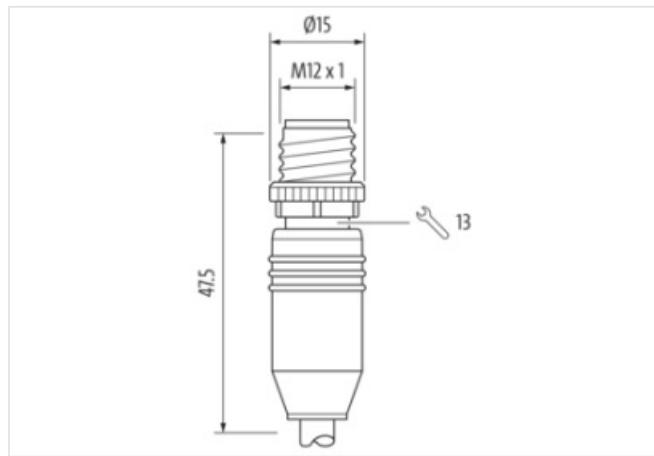
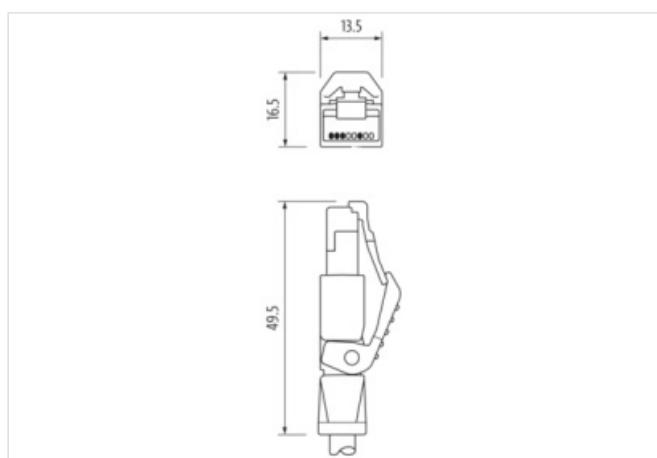
USA

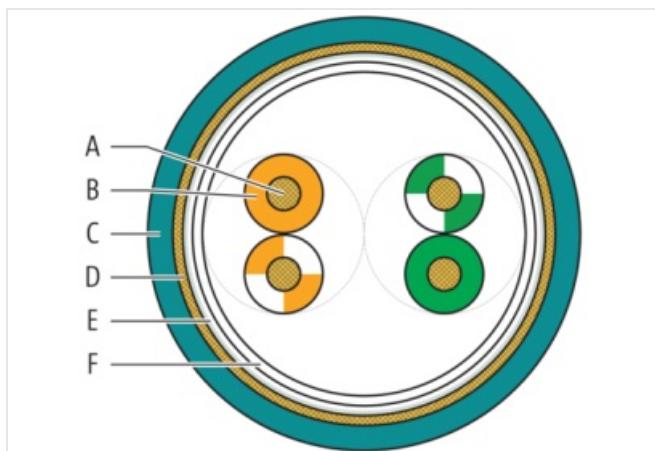
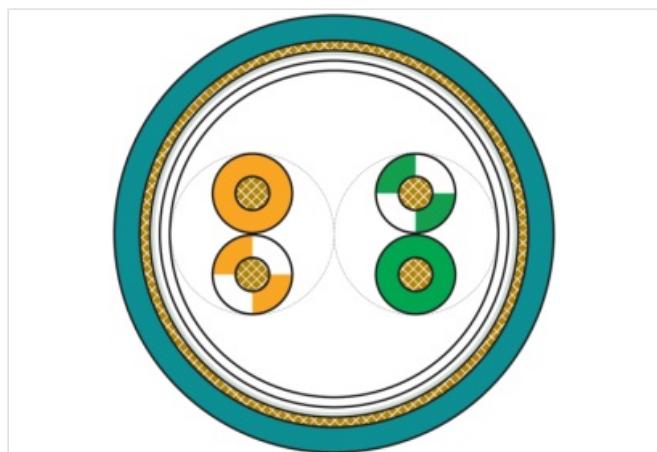
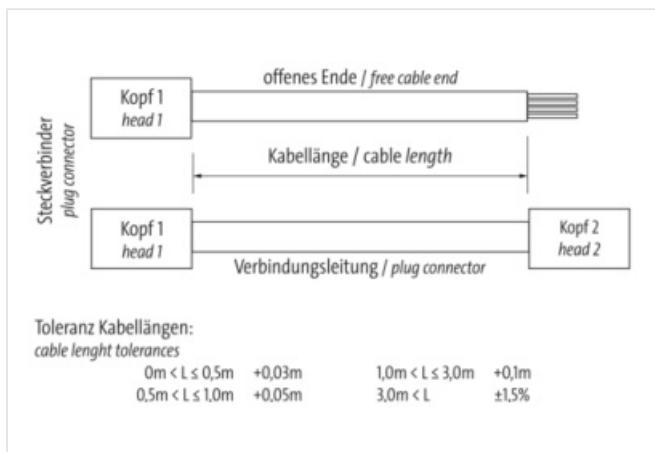
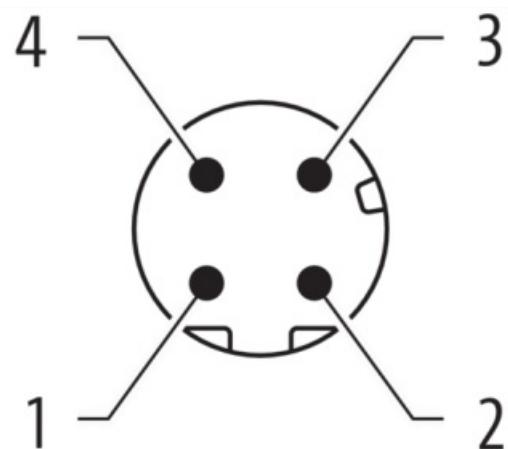
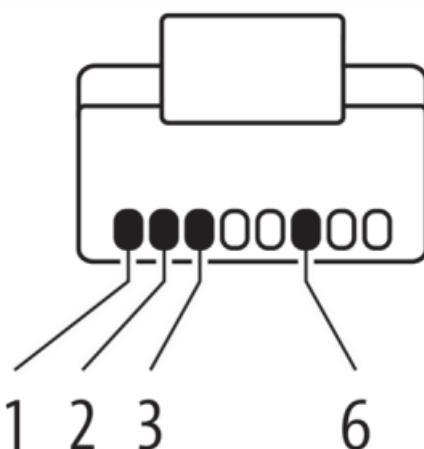
without cable sleeves

Cable is approved for 600 V

Further cable lengths on request.

maximum length at channel transmission corresponds to 70 m

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



Product may differ from Image

**Header**

Material short text

MSRAL0-DA-TS4U_1.5-ZS

Cable length

1,50 m

Side 1

| | |
|-------------------------------------|-------------------|
| Family construction form | M12 |
| No. of poles | 4 |
| Coding | D |
| Mounting method | inserted, screwed |
| Threaded hole | M12 x 1 |
| Width across flats | SW13 |
| Cable outlet | straight |
| Degree of protection (EN IEC 60529) | IP67 |

Side 2

| | |
|-------------------------------------|-----------|
| Family construction form | RJ45 |
| No. of poles | 4 |
| Mounting method | pluggable |
| Cable outlet | straight |
| Degree of protection (EN IEC 60529) | IP20 |

Commercial data

| | |
|-----------------------|---|
| URL Webshop | https://shop.murrelektronik.com/7700-44711-S4U0150 |
| GTIN | 4048879619691 |
| 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 |
| customs tariff number | 85444290 |
| EAN | 4048879619691 |
| Packaging unit | 1 |

Electrical data | Supply

| | |
|------------------------------------|-------|
| Operating voltage DC max. | 60 V |
| Current operating per contact max. | 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 |
|--------|-------------|

Device protection | Electrical

| | |
|------------------------------|------|
| Pollution Degree | 3 |
| Rated surge voltage | 1 kV |
| Material group (IEC 60664-1) | I |

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 | Attention: 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 | S4U |
| Function cable | Data |
| Amount stranding | 2 |
| Stranding | 2 wires stranded |
| Amount stranding (type 2) | 1 |
| Stranding (type 2) | 2 stranding combinations stranded |
| Cable shielding (type) | copper braid, tinned |
| Cable shielding (coverage) | 75 % |
| Banding | Foil |
| Cable weight | 50,6 g/m |
| Material wire insulation | HDPE |
| Amount wires | 4 |
| Outer diameter insulation | 1,22 mm |
| Outer diameter tolerance core insulation | ± 0,05 mm |
| Ingredient freeness wire insulation | CFC-free, lead-free |
| Amount strands (wire) | 7 |
| Diameter of single wires | 32 AWG |
| Conductor crosssection (wire) | 24 AWG |
| Material conductor wire | copper stranded wire, tinned |
| Outer-diameter (jacket) | 6,6 mm |
| Tolerance outer diameter (sheath) | ± 5 % |
| Material jacket | TPE |
| Shore hardness jacket | 80 ± 5 Shore A |
| Freedom from ingredients (jacket) | CFC-free, lead-free |
| Cable length max. | 83 m |
| Conductor resistance (wire) | 93,8 Ω/km @ 20 °C |
| Nominal voltage max. | 600 V |
| Loop resistance | 280 Ω/km |
| Withstand voltage (wire - wire) | 1.5 kV @ 2 s |
| Withstand voltage (wire - jacket) | 1.5 kV @ 2 s |
| Current load capacity (standard) | to DIN VDE 0298-4 |
| Current load capacity max. (wire) | 2,4 A |
| Characteristic impedance | 100 Ω |
| Operating temperature min. (static) | -40 °C |
| Operating temperature max. (static) | 80 °C |
| Operating temperature min. (dynamic) | -40 °C |
| Operating temperature max. (dynamic) | 80 °C |
| Storage temperature min. | -40 °C |
| Storage temperature max. | 80 °C |
| Bending radius (fixed) | 8 × Outer diameter |
| Bending radius (dynamic) | 8 × 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 |
| Acceleration (C-track) | 2.4 m/s ² |
| No. of torsion cycles | 3 Mio. |
| Torsion stress | ± 270 °/m |
| Torsion speed | 60 cycles/min |