

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

TPE 2x2x24AWG SF/UTP CAT5e bu UL/CSA. CM 5m

Art.No.: 7700-44711-S4U0500

Weight: 0.275 kg

Country of origin: US

Model designation: MSRAL0-DA-TS4U\_5.0-ZS

Ethernet CAT5

Male straight – male straight

M12 – RJ45, 4-pole

D-coded

Shielded

8-pole partly used

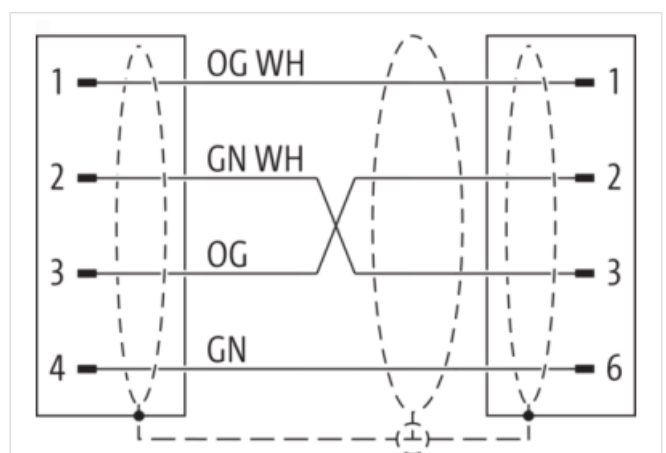
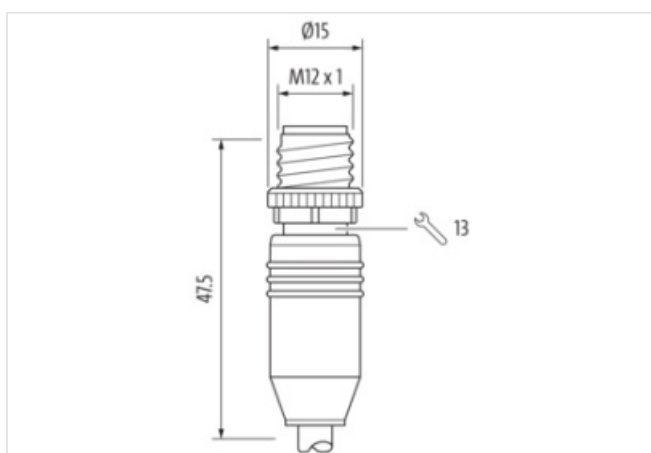
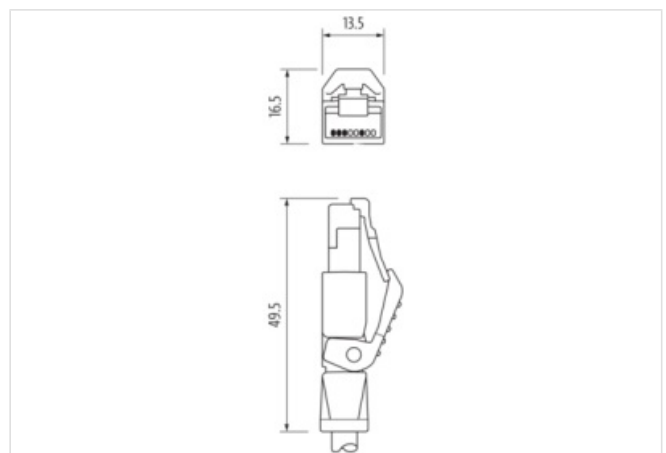
USA

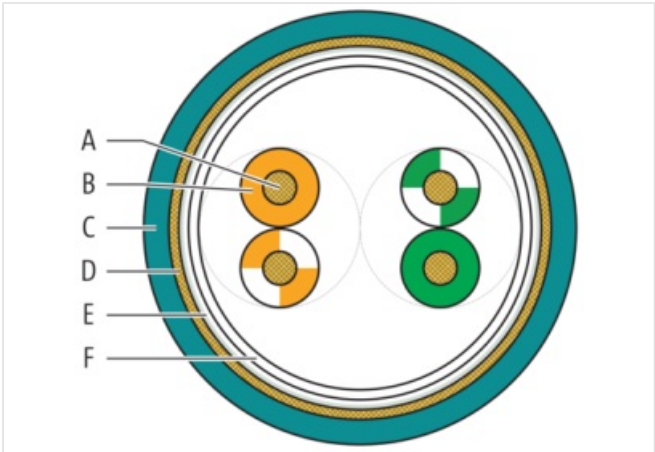
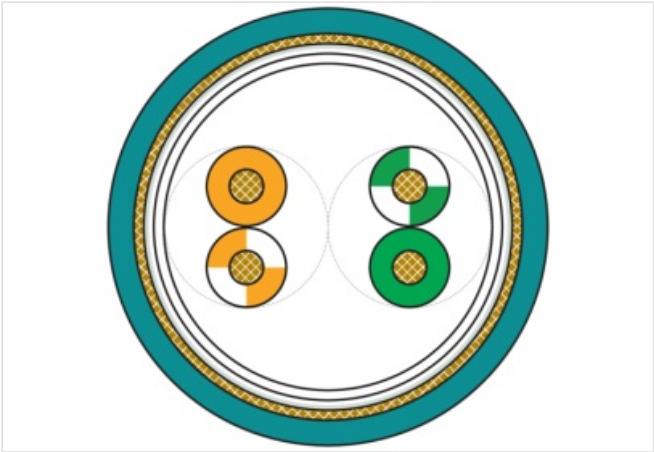
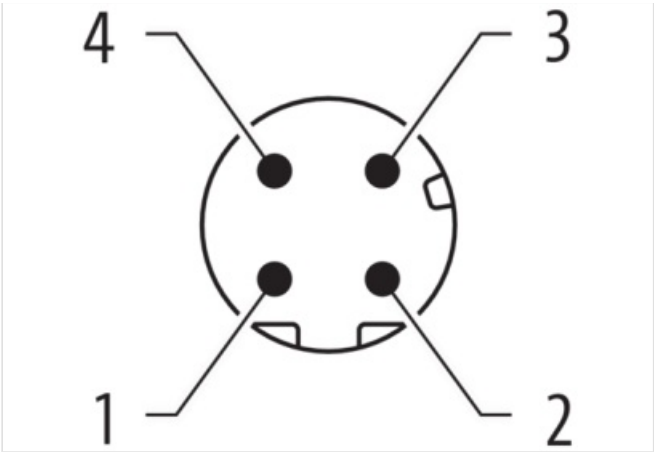
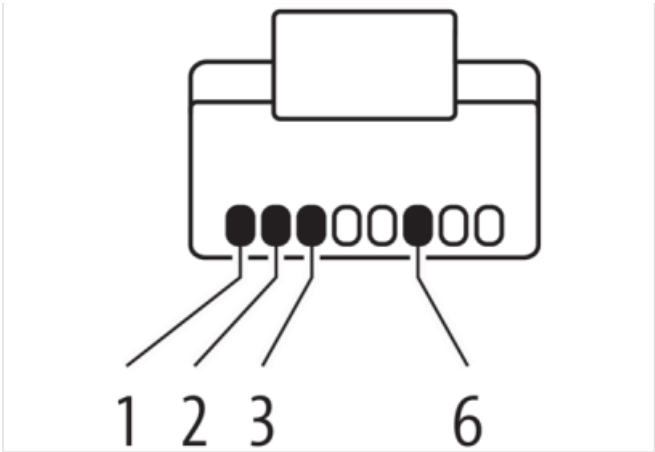
without cable sleeves

Cable is approved for 600 V

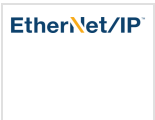
Further cable lengths on request.

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\_5.0-ZS

Cable length

5,00 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	<a href="https://shop.murrelektronik.com/7700-44711-S4U0500">https://shop.murrelektronik.com/7700-44711-S4U0500</a>
GTIN	4048879619721
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	4048879619721
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	<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	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	lead-free, CFC-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)	lead-free, CFC-free
Cable length max.	83 m
Conductor resistance (wire)	93.8 Ω/km @ 20 °C
Nominal voltage AC 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 min. wire	2,4 A
Characteristic impedance	100 Ω ± 5 % @ 100 MHz
Min. operating temperature (static)	-40 °C
Max. operating temperature (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
Oil resistance	good
UV resistance	UL 444 § 7.22

Other resistances	resistant to welding sparks
Bending radius (fixed)	8 × Outer diameter
Bending radius (dynamic)	8 × Outer diameter
No. of bending cycles (C-track)	35 Mio. @ 25 °C
Traversing distance (C-track)	0.6 m @ 25 °C
Travel speed (C-track)	1.2 m/s @ 25 °C
Acceleration (C-track)	2.4 m/s <sup>2</sup> @ 25 °C
No. of torsion cycles	3 Mio.
Torsion stress	± 270 °/m
Torsion speed	60 cycles/min