

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

TPE 22AWG SF/UTP CAT5e gn UL/CSA. ITC/PLTC 3m

Art.No.: 7700-44711-S7V0300

Weight: 0.133 kg

Country of origin: US

Model designation: MSRAL0-DA-TS7V\_3.0-ZS

Ethernet CAT5

Male straight – male straight

M12 – RJ45, 4-pole

D-coded

Shielded

USA

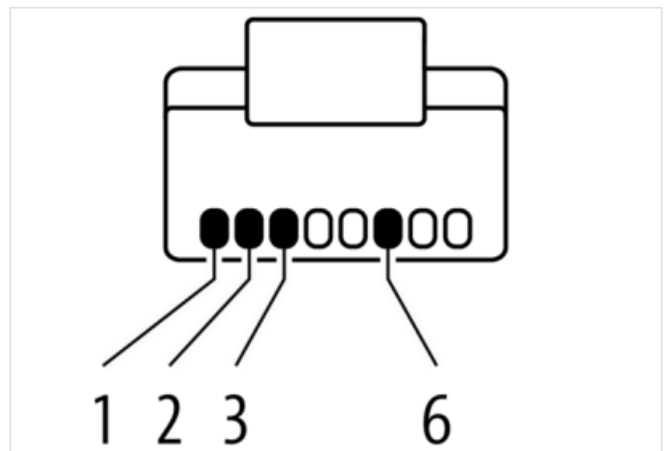
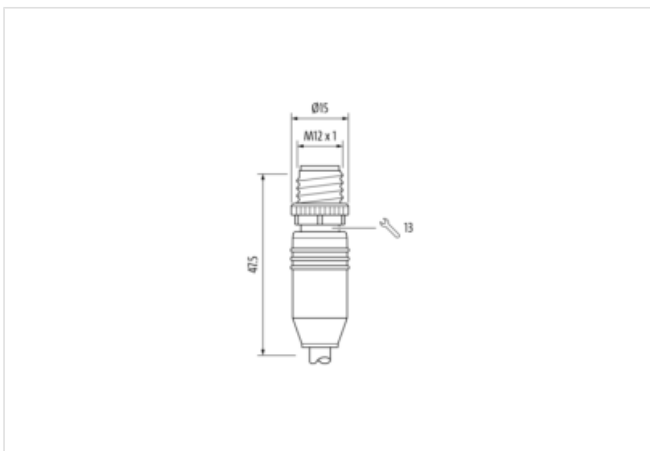
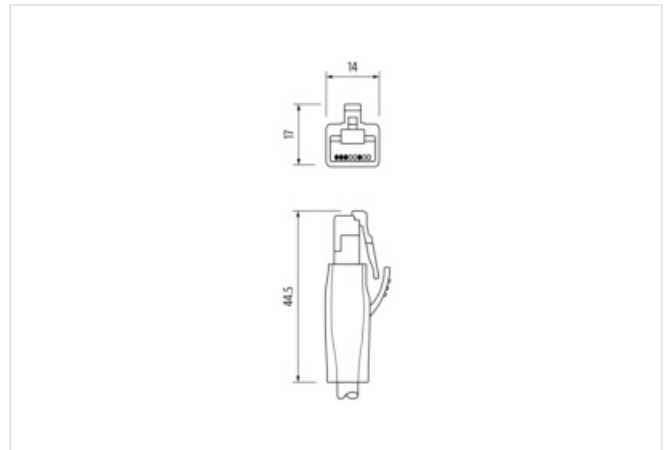
without cable sleeves

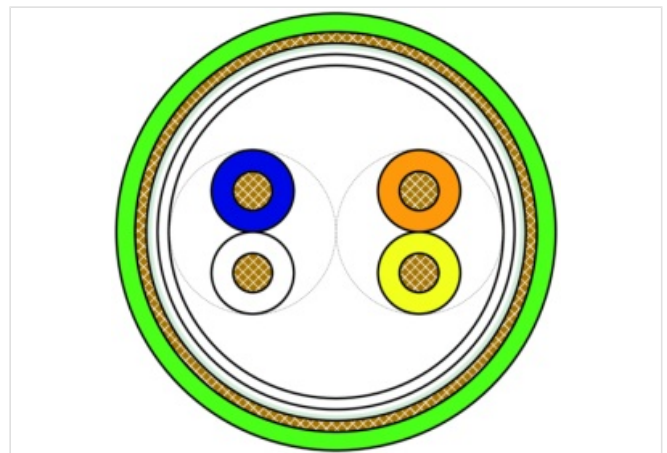
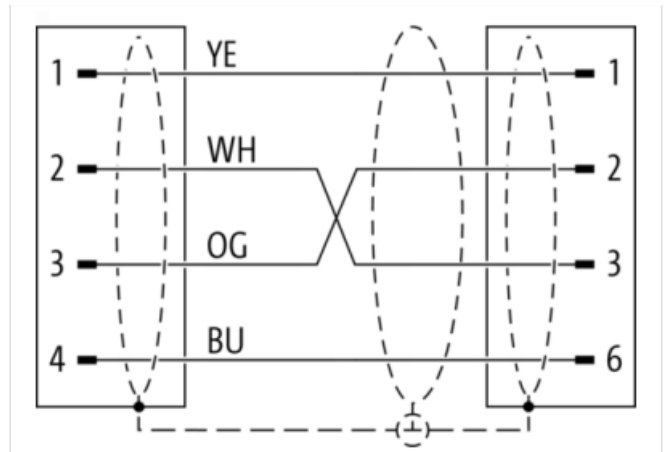
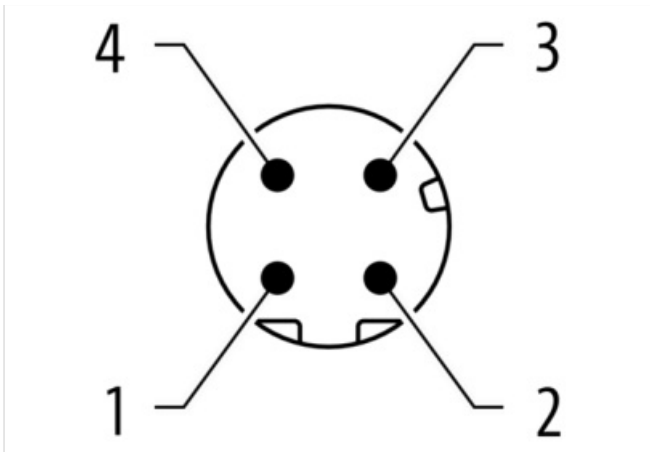
Protection cap

Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

Transmission properties with channel transmission up to 100 m

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



Product may differ from Image



Cable length	3,00 m
<b>Side 1</b>	
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)	IP67
<b>Side 2</b>	
Family construction form	RJ45
No. of poles	4

Gender	male
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-S7V0300">https://shop.murrelektronik.com/7700-44711-S7V0300</a>
GTIN	4048879668668
Customs tariff number	85444290
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	4048879668668
Packaging unit	1

**Electrical data | Supply**

Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A
Operating voltage DC (UL-listed)	30 V

**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
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**Device protection | Electrical**

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

**Mechanical data**

Contour for corrugated hose	without
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**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), EN IEC 60603-7 (RJ45)

**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
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
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
Cable type	Industrial Ethernet Profinet Typ B & C, CAT5e
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