

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

TPE 2x2x24AWG SF/UTP CAT5e bu UL/CSA. CM 3m

Art.No.: 7700-44711-S4U0300

Weight: 0.175

Country of origin: US

Model designation: MSRAL0-DA-TS4U\_3.0-ZS

Ethernet CAT5

Further cable lengths on request.

Male straight – male straight

maximum length at channel transmission corresponds to 70 m

M12 – RJ45, 4-pole

D-coded

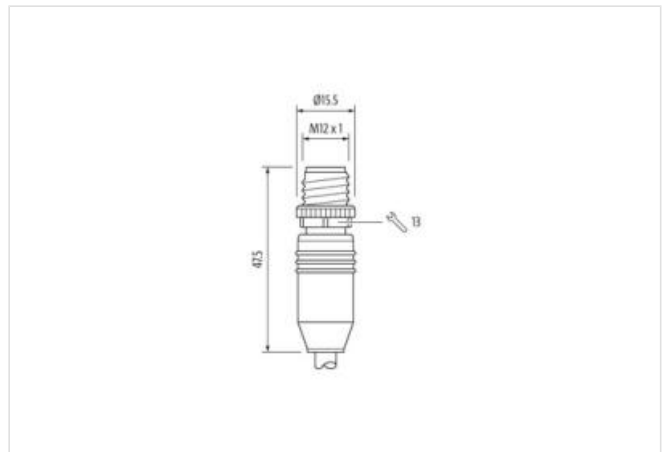
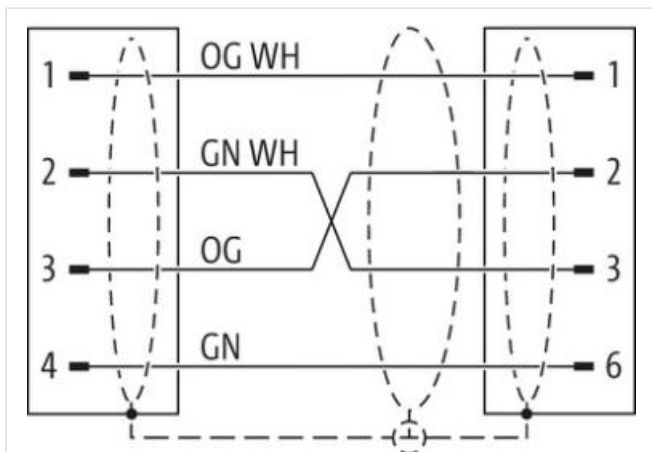
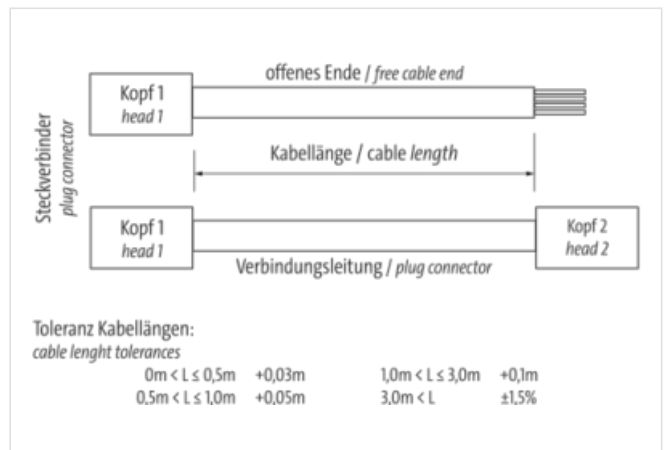
shielded

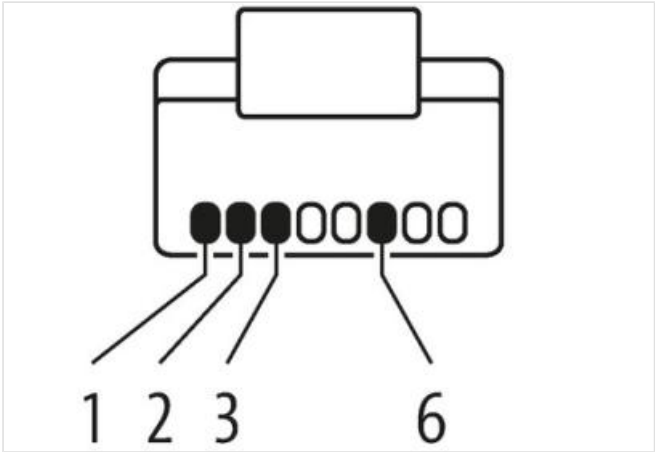
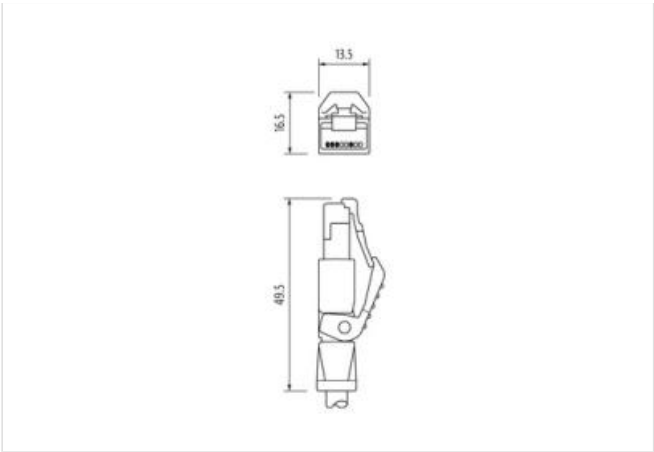
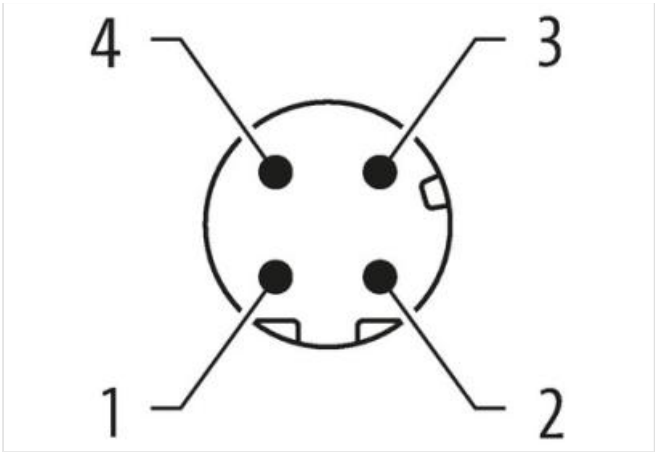
8-pole partly used

USA

without cable sleeves

Cable is approved for 600 V

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



Product may differ from Image



Cable length	3 m
Side 1	
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
Degree of protection (EN IEC 60529)	IP67
Side 2	
Mounting method	pluggable
Family construction form	RJ45
Cable outlet	straight
No. of poles	4
Degree of protection (EN IEC 60529)	IP20
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	4048879619714
EAN	4048879619714
Packaging unit	1
Packaging unit	1

#### Electrical data | Supply

Operating voltage DC max.	60 V
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
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#### Device protection | Electrical

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

#### Environmental characteristics | Climatic

Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality

#### Important installation notes

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	<b>Attention:</b> 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)
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#### 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 weight	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