

M12 fem. recept. D-cod. rear/RJ45 male 0° shielded

TPE 2x2x24AWG SF/UTP CAT5e bu UL/CSA. CM 25m

Art.No.: 7700-44851-S4U2500

Weight: 1.427

Country of origin: DE

Model designation: MSDBFH-RA-TS4U_25.0-ZS

Ethernet CAT5

Flange female straight – male straight

M12 – RJ45, 4-pole

D-coded

shielded

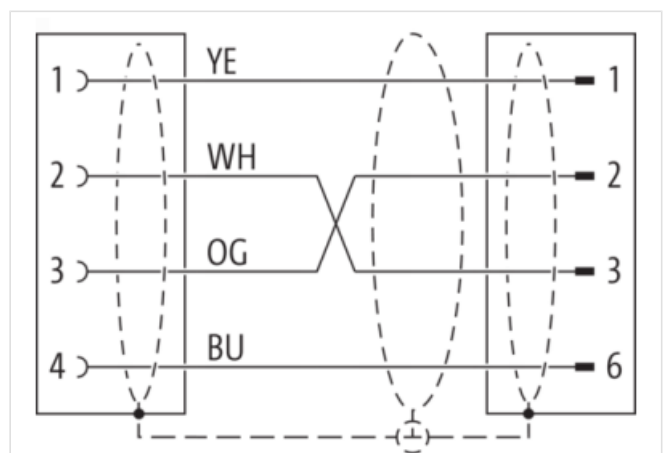
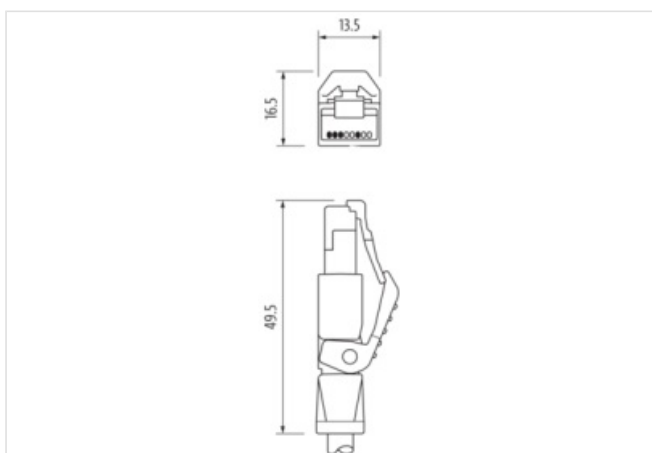
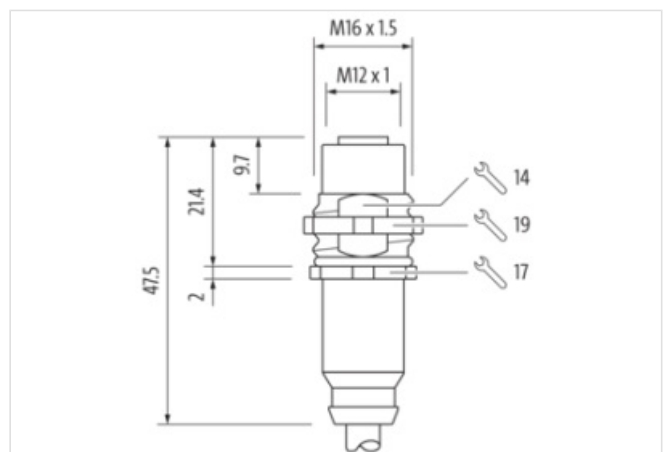
8-pole partly used

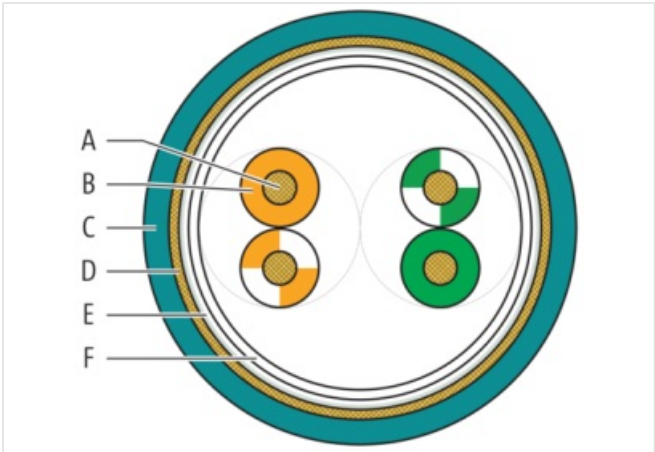
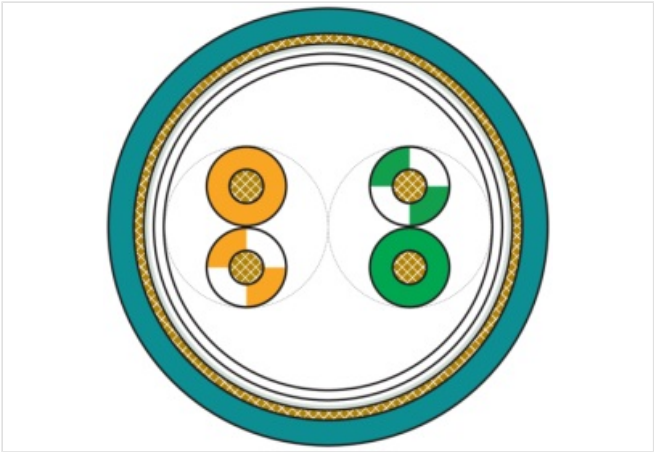
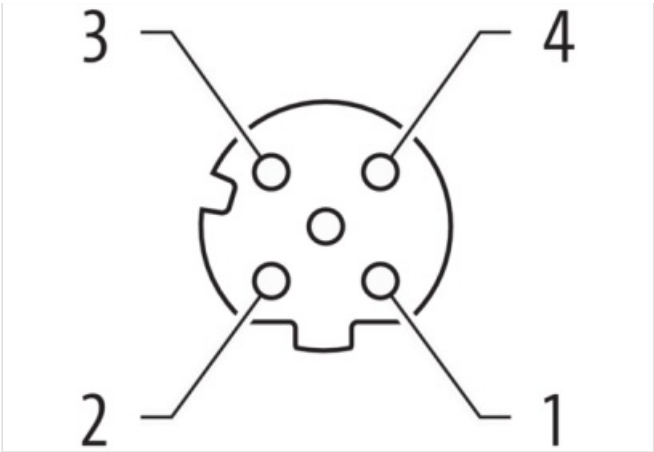
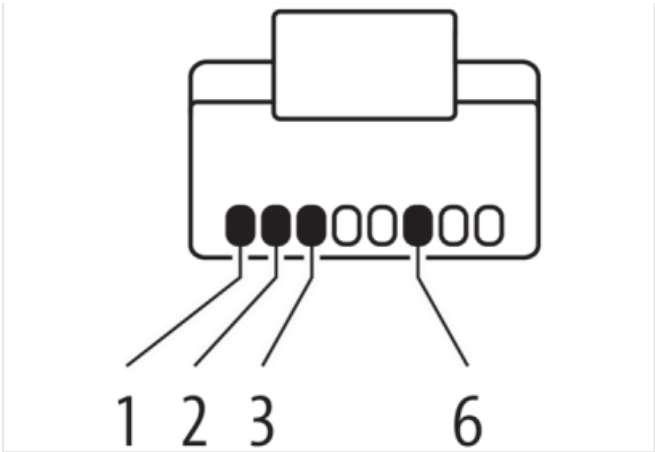
Rear mounting

USA

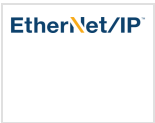
Cable is approved for 600 V

Further cable lengths on request.

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



Product may differ from Image



Header

Material short text

MSDBFH-RA-TS4U_25.0-ZS

Cable length

25,00 m

Side 1	
Family construction form	M12
No. of poles	4
Coding	D
suitable for corrugated tube (internal Ø)	10 mm
Degree of protection (EN IEC 60529)	IP67
Side 2	
Family construction form	RJ45
No. of poles	4
Mounting method	pluggable
Degree of protection (EN IEC 60529)	IP20
Commercial data	
URL Webshop	https://shop.murrelektronik.com/7700-44851-S4U2500
GTIN	4048879877541
ECLASS-6.0	27279220
ECLASS-6.1	27279220
ECLASS-7.0	27440103
ECLASS-7.1	27440103
ECLASS-8.0	27440103
ECLASS-8.1	27440103
ECLASS-9.0	27440103
ECLASS-9.1	27440109
ECLASS-10.0.1	27440109
ECLASS-10.1	27440103
ECLASS-11.0	27440109
ECLASS-11.1	27440103
ECLASS-12.0	27440103
ECLASS-13.0	27440109
ECLASS-14.0	27440109
ETIM-5.0	EC002599
ETIM-6.0	EC002599
ETIM-7.0	EC002599
ETIM-8.0	EC002599
customs tariff number	85444290
EAN	4048879877541
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	
Protection NEMA	6P, 4, 3
Pollution Degree	3
Rated surge voltage	1 kV
Material group (IEC 60664-1)	I
Mechanical data Material data	
Locking material	Brass

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

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.

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
Wire arrangement	(, orange-white, orange,), green-white, green
Cable weigth	55.66 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 crossection (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 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
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
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