

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

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

Art.No.: 7700-44851-S4U0500

Weight: 0.287 kg

Country of origin: DE

Model designation: MSDBFH-RA-TS4U_5.0-ZS

USA

Ethernet CAT5

Flange female straight – male straight

M12 – RJ45, 4-pole

D-coded

Shielded

8-pole partly used

Rear mounting

Cable is approved for 600 V

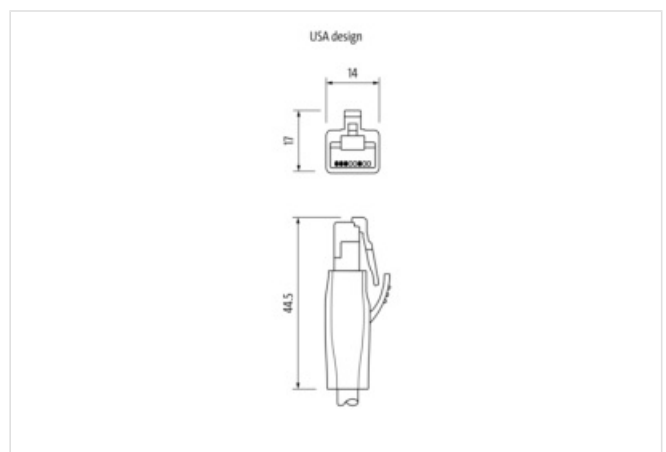
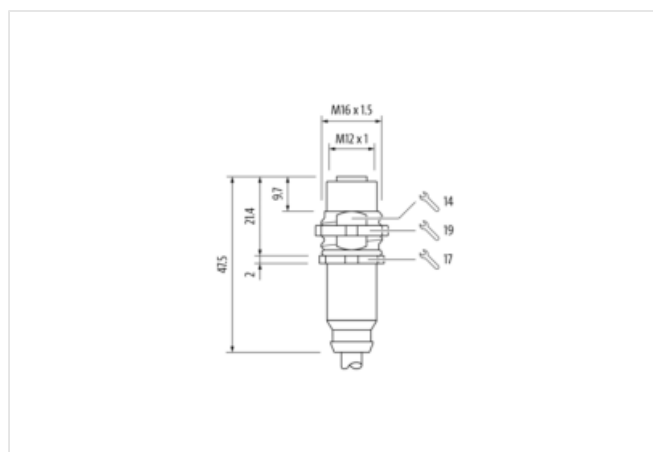
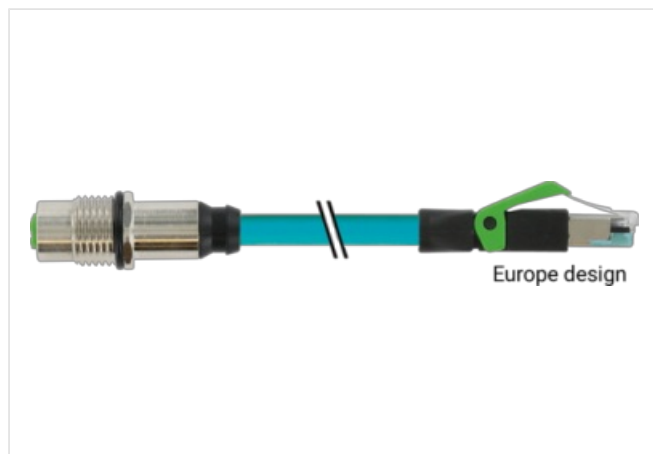
maximum length at channel transmission corresponds to 70 m

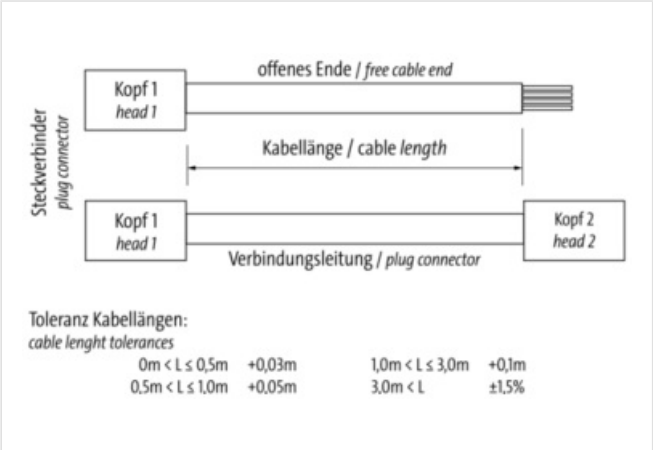
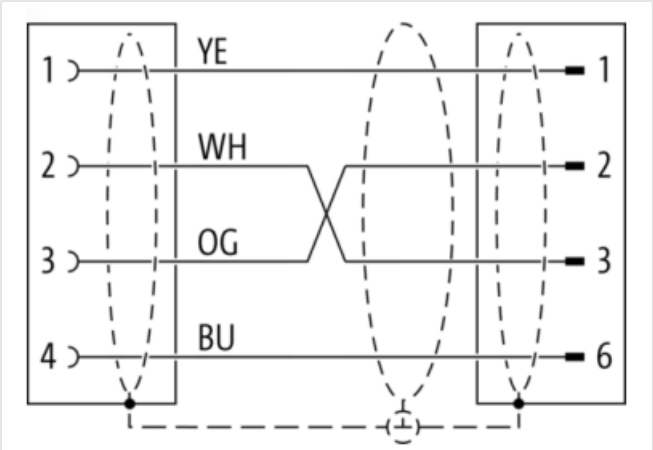
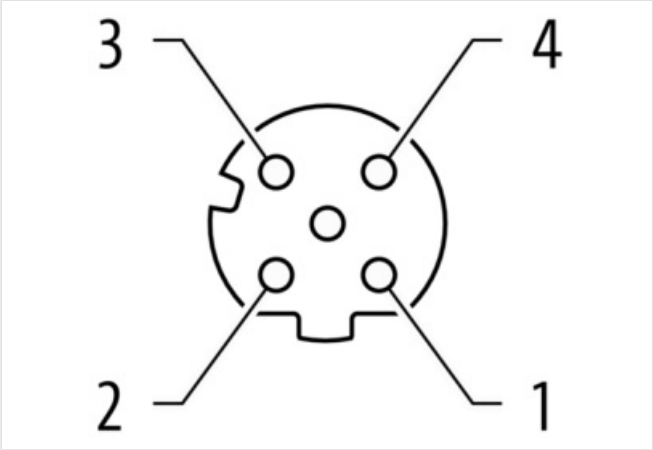
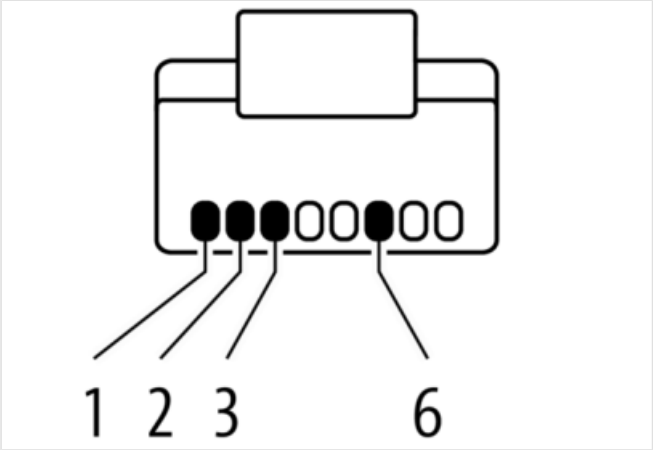
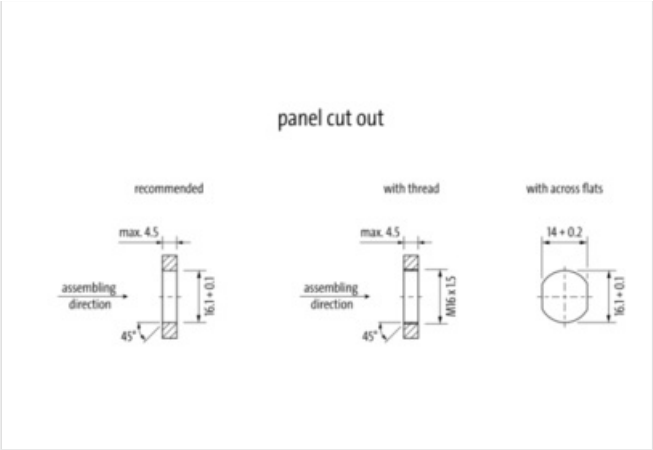
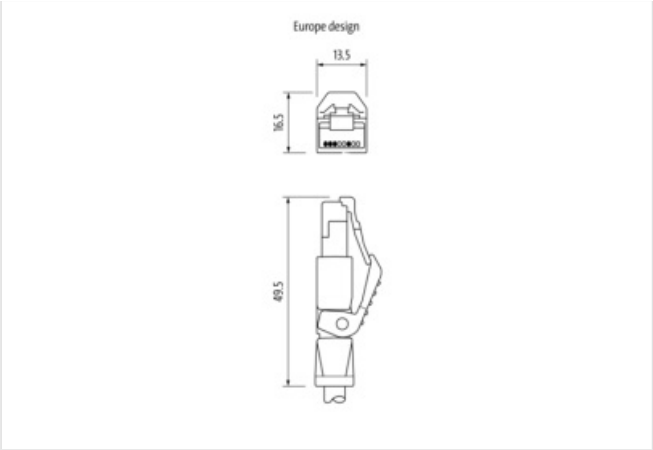
without cable sleeves

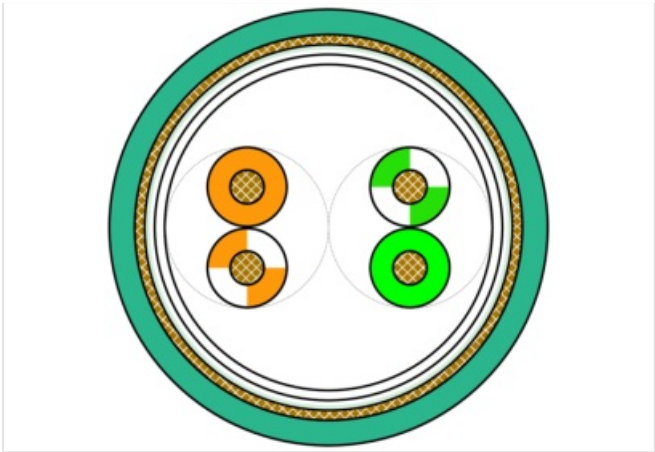
Good chemical and oil resistance (oil resistance does not apply to use with PVC cable)

The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

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





Product may differ from Image



Cable length	5,00 m
Side 1	
Family construction form	M12
No. of poles	4
Coding	D
Gender	female
Mounting method	inserted, screwed
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
Gender	male
Mounting method	pluggable
Degree of protection (EN IEC 60529)	IP20
Commercial data	
URL Webshop	https://shop.murrelektronik.com/7700-44851-S4U0500
GTIN	4048879619820
EU-Customs tariff number	85444290
US-Customs tariff number	8544429090
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
ETIM-9.0	EC002599
ETIM-10.0	EC002599
customs tariff number	85444290
EAN	4048879619820
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
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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
Coating locking	nickel plated

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)
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Installation | Cable

Cable identification	S4U
Function cable	Data
Cable weight	50,6 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	(OGWH, OG), (GNWH, GN)
Shield	shielded
Cable type	Industrial Ethernet CAT5e

Material wire insulation	HDPE
Amount wires	4
Outer diameter insulation	1.22 mm ± 0.05 mm
Conductor crosssection (wire)	24 AWG
Material conductor wire	copper stranded wire, tinned
Core construction (wire)	7 x 32 AWG
Ingredient freeness wire insulation	lead-free, CFC-free
Material jacket	TPE
Outer-diameter (jacket)	6.6 mm ± 5 %
Jacket Color	blue / RAL 5018
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
Withstand voltage (wire - wire)	1.5 kV @ 2 s
Withstand voltage (wire - jacket)	1.5 kV @ 2 s
Current load capacity max. (wire)	2,4 A
Current load capacity (standard)	to DIN VDE 0298-4
Characteristic impedance	100 Ω ± 5 % @ 100 MHz
Loop resistance	280 Ω/km
Cable length max.	83 m
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)	16 × 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/s² @ 25 °C
No. of torsion cycles	3 Mio.
Torsion stress	± 270 °/m
Torsion speed	60 cycles/min