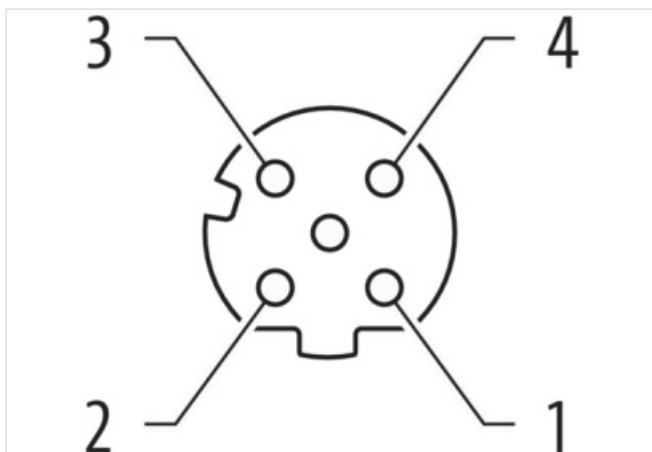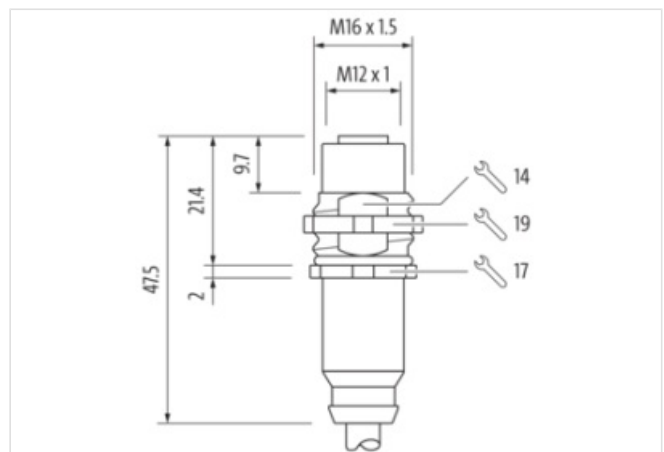**M12 female recept. D-cod. shielded rear**

TPE 2x2x24AWG SF/UTP CAT5e bu UL/CSA. CM 1m
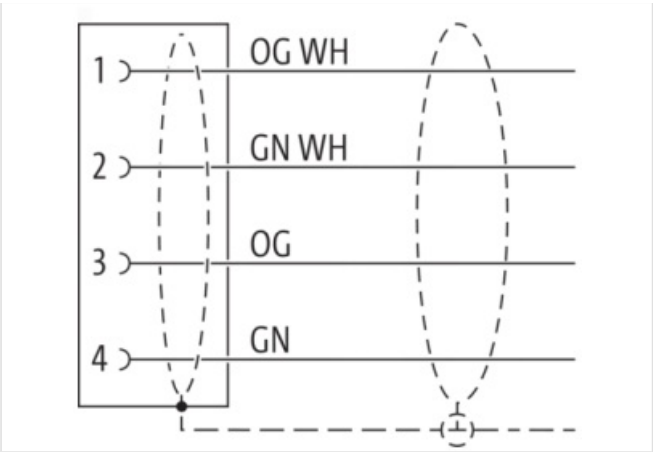
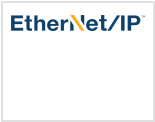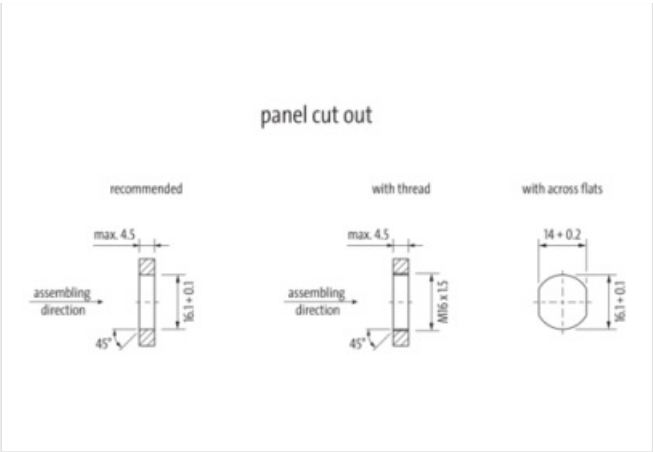 Art.No.: 7700-14511-S4U0100
  Weight: 0.079
  Country of origin: DE
  Model designation: MSDBFH-TS4U_1.0-ZE

Link to Product

Illustration

Product may differ from Image

1

Side 1

Family construction form	M12
No. of poles	4
Coding	D
Mounting method	inserted, screwed
Thread	M12 x 1
Width across flats	SW14
Degree of protection (EN IEC 60529)	IP67

Side 2

Family construction form	free cable end
Stripping length (jacket)	20 mm

Commercial data

URL Webshop	https://shop.murrelektronik.com/7700-14511-S4U0100
GTIN	4048879599986
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

The information in this Product-PDF has been compiled with the utmost care.
Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-07-07

Murrelektronik bv | Noorderlaan 147-b9 | B-2030 Antwerpen | Fon +32 (0)380 868 81 | Fax | shop@murrelektronik.be | shop.murrelektronik.be

EAN	4048879599986

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
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1.5 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	**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.

Installation | Cable

Cable identification	S4U
Function cable	Data
Amount stranding	2
Stranding	Wires
Amount stranding (type 2)	1
Stranding (type 2)	Stranded joints
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	24 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
Freedom from ingredients (jacket)	CFC-free, lead-free
Cable length max.	83 m
Electrical resistance line constant wire	76.4 Ω/km @ 20 °C
Nominal voltage AC max.	600 V
Loop resistance	280 Ω/km

AC withstand voltage (wire - wire)	1.5 kV @ 2 s
Power frequency 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/s²
No. of torsion cycles	3 Mio.
Torsion stress	270 °/m
Torsion speed	60 cycles/min