

**M12 fem. recept. X-cod. / RJ45 male 0° shielded**

TPE 4x2x26AWG SF/UTP CAT6a bu UL/CSA. CMR 1m

Art.No.: 7700-51551-S4X0100

Weight: 0.088 kg

Country of origin: DE

Model designation: MSXBFH-RA-08D\_S4X\_1.0-ZS

USA

Ethernet CAT6A

Flange female straight – male straight

RJ45 – M12, 8-pole

X-coded

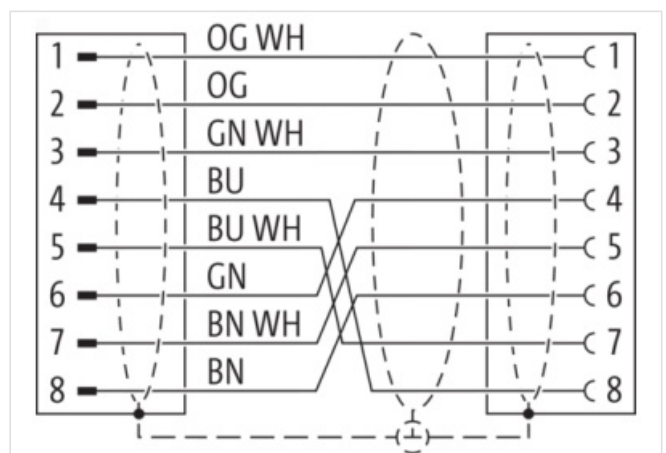
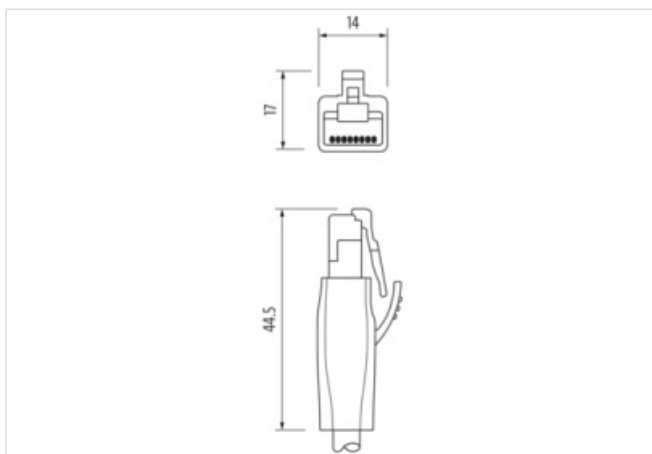
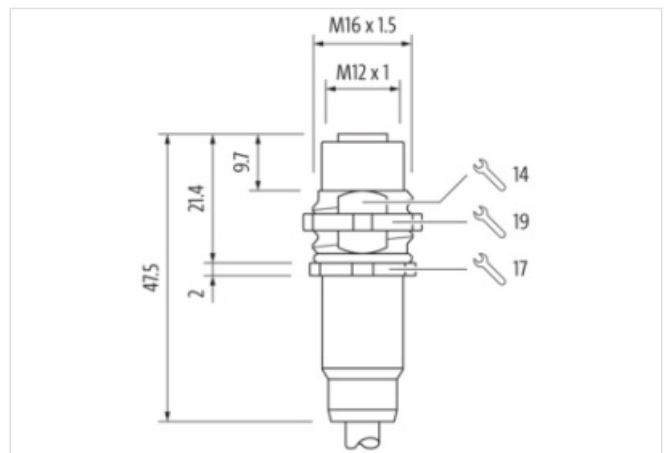
Shielded

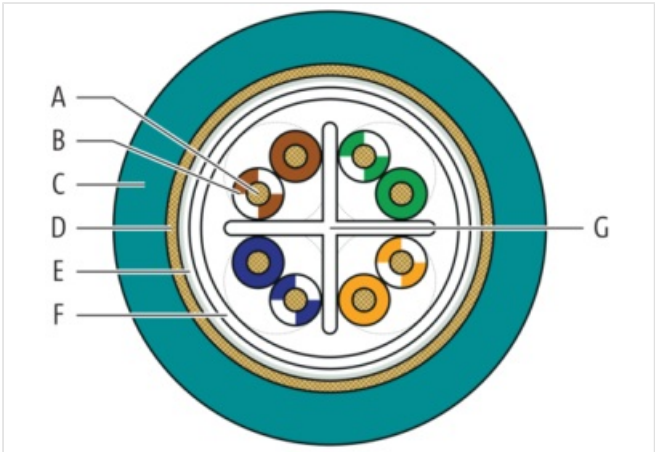
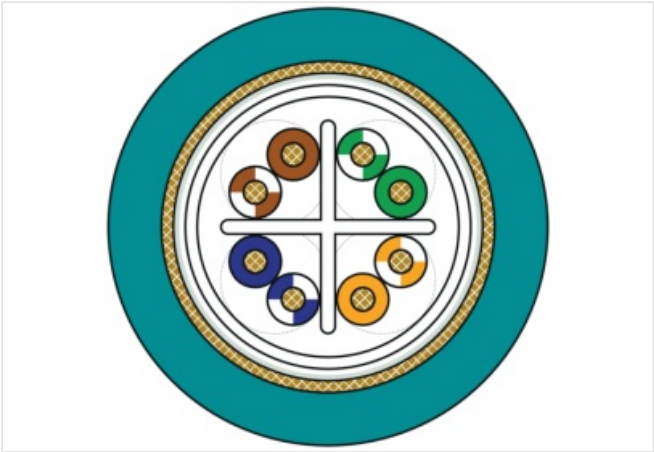
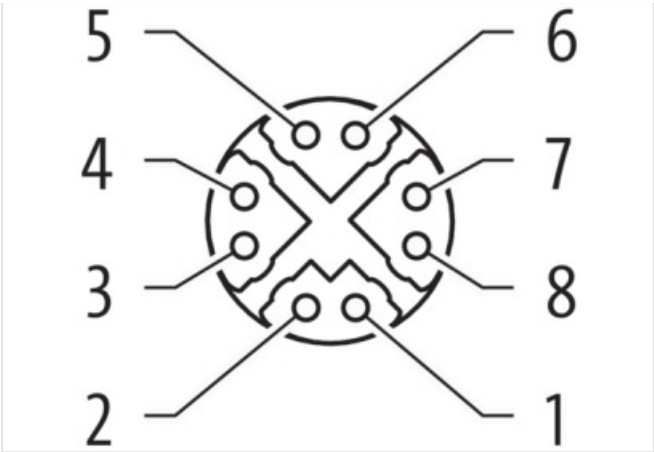
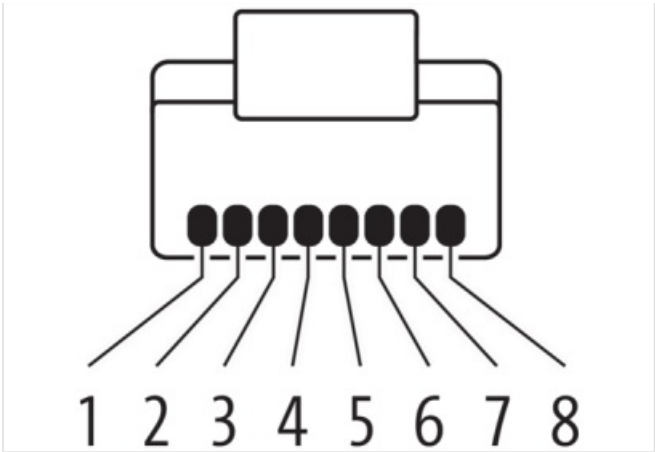
Rear mounting

without cable sleeves

Protection cap

Transmission properties with channel transmission up to 50 m

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



Product may differ from Image



Header

Material short text MSXBFH-RA-08D\_S4X\_1.0-ZS

Cable length 1,00 m

Side 1

Family construction form	M12
No. of poles	8
Coding	X
Gender	female
Mounting method	inserted, screwed
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW17
Cable outlet	straight
Degree of protection (EN IEC 60529)	IP67

**Side 2**

Family construction form	RJ45
No. of poles	8
Coding	X
Gender	male
Mounting method	inserted
Cable outlet	straight
Degree of protection (EN IEC 60529)	IP20

**Commercial data**

URL Webshop	<a href="https://shop.murrelektronik.com/7700-51551-S4X0100">https://shop.murrelektronik.com/7700-51551-S4X0100</a>
GTIN	4048879699457
ECLASS-6.0	27279221
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	4048879699457
Packaging unit	1

**Electrical data | Supply**

Operating voltage DC max.	60 V
Operating current max.	0,5 A
Operating voltage DC (UL-listed)	30 V

**Industrial Communication**

Data transmission rate max.	10 Gbit/s
Transfer parameters	CAT6, Class EA (ISO/IEC 11801:2002), (EN 50173-1)

**Diagnostics**

Status indication LED	No
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#### Installation | Connection

Mounting set	M16 x 1.5
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#### Installation | Pin assignment

Configuration	fully used
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#### Device protection | Electrical

Additional condition protection degree	inserted, screwed
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Pollution Degree	3
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Rated surge voltage	0,8 kV
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Material group (IEC 60664-1)	I
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#### Mechanical data

Contour for corrugated hose	without
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#### Mechanical data | Material data

Color contact carrier	green
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Coating of fitting	nickel plated
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#### Environmental characteristics | Climatic

Operating temperature min.	-30 °C
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Operating temperature max.	85 °C
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Additional condition temperature range	depending on cable quality
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#### Important installation notes

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.
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Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
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#### Installation | Cable

Cable identification	S4X
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Function cable	Data
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Amount stranding	4
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Stranding	2 wires stranded
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Amount stranding (type 2)	1
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Stranding (type 2)	4 stranding combinations stranded around insulation element
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Banding	Foil
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Filler	Insulation element
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Cable weight	59,53 g/m
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Material wire insulation	HDPE
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Amount wires	8
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Outer diameter insulation	0,9 mm
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Outer diameter tolerance core insulation	± 0,05 mm
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Ingredient freeness wire insulation	lead-free, CFC-free
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Amount strands (wire)	7
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Diameter of single wires	26 AWG
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Conductor crosssection (wire)	26 AWG
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Material conductor wire	copper stranded wire, tinned
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Outer-diameter (jacket)	7,4 mm
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Tolerance outer diameter (sheath)	± 5 %
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Material jacket	TPE
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Shore hardness jacket	80 ± 5 Shore A
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Freedom from ingredients (jacket)	lead-free, CFC-free
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Cable length max.	66 m
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Conductor resistance (wire)	212 Ω/km @ 20 °C
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Electrical capacity line constant (wire - wire)	84.850 pF/km
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Nominal voltage max.	600 V
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Loop resistance	424 $\Omega$ /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 max. (wire)	2 A
Characteristic impedance	100 $\Omega$
Operating temperature min. (static)	-40 °C
Operating temperature max. (static)	80 °C
Operating temperature min. (dynamic)	-40 °C
Operating temperature max. (dynamic)	80 °C
Operating temperature min. (drag chain)	-40 °C
Operating temperature max. (drag chain)	80 °C
Storage temperature min.	-40 °C
Storage temperature max.	80 °C
Bending radius (fixed)	4 × Outer diameter
Bending radius (dynamic)	18 × 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/s <sup>2</sup> @ 25 °C
No. of torsion cycles	3 Mio. @ 25 °C
Torsion stress	± 270 °/m
Torsion speed	60 cycles/min @ 25 °C