

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

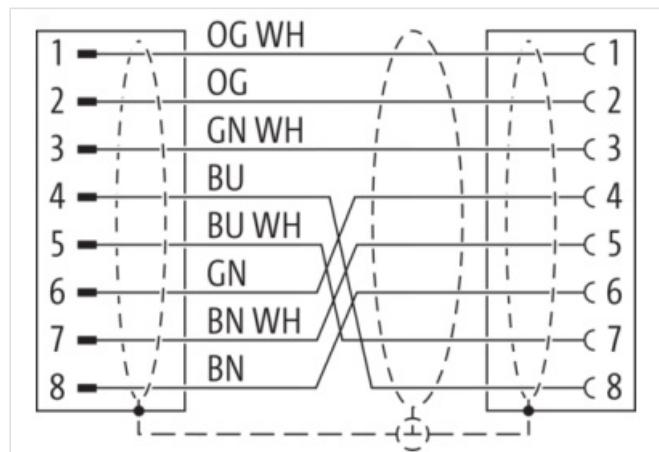
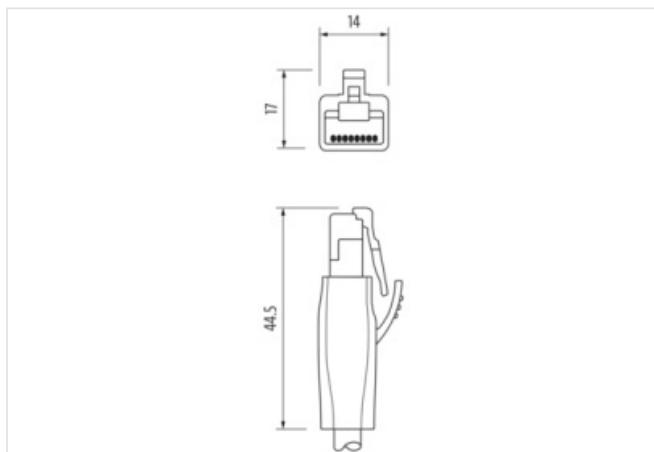
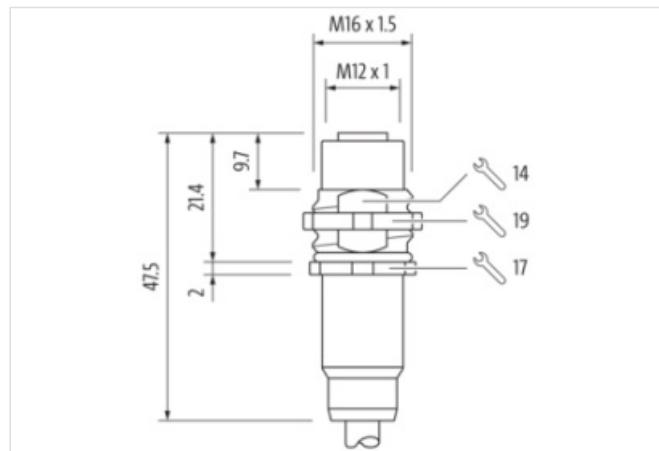
Shielded

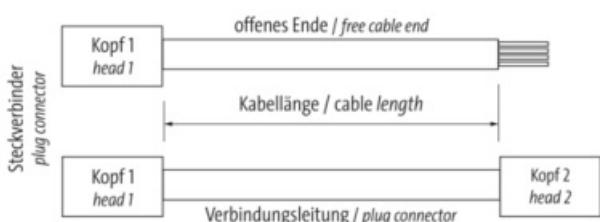
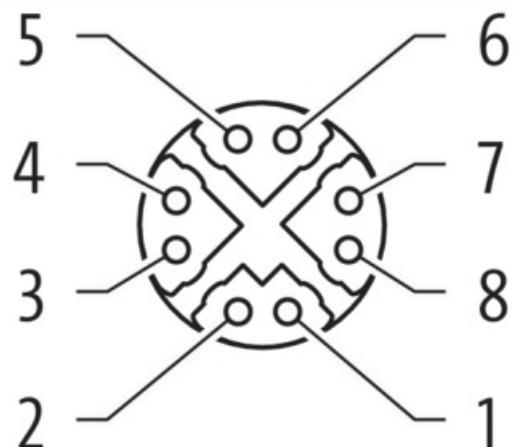
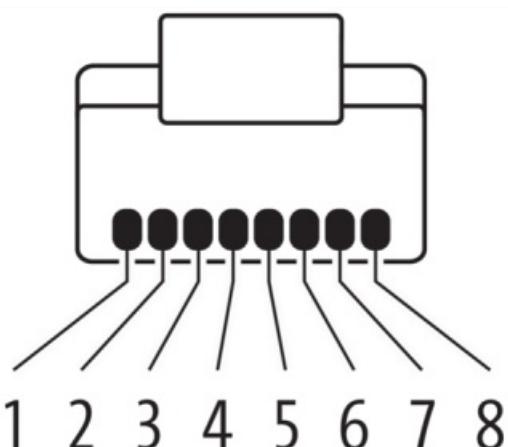
Rear mounting

without cable sleeves

Protection cap

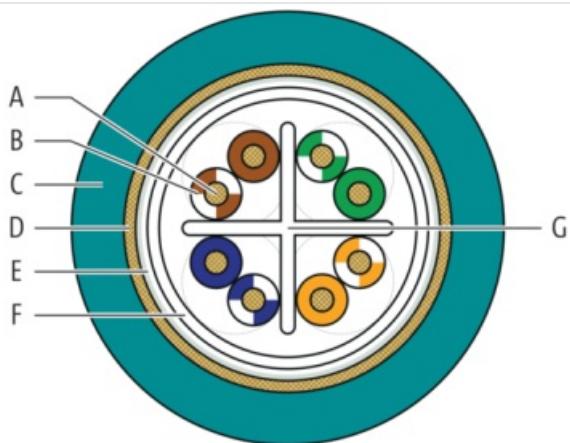
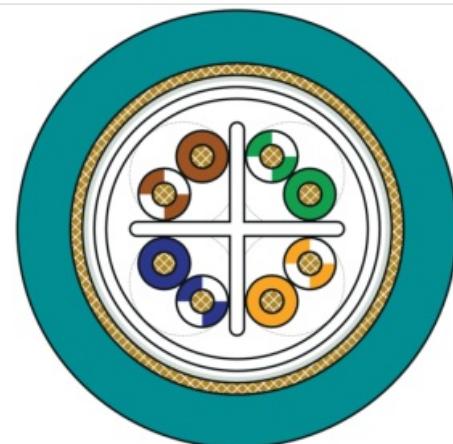
Transmission properties with channel transmission up to 50 m

Link to Product**Illustration**



Toleranz Kabellängen:
cable length tolerances

0m < L ≤ 0,5m	+0,03m	1,0m < L ≤ 3,0m	+0,1m
0,5m < L ≤ 1,0m	+0,05m	3,0m < L	±1,5%



Product may differ from Image



Header

Material short text MSXBFH-RA-08D_S4X_1.0-ZS

Cable length 1,00 m

Side 1

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: 2026-01-11

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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	https://shop.murrelektronik.com/7700-51551-S4X0100
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
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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
Installation Connection	
Mounting set	M16 x 1.5
Installation Pin assignment	
Configuration	fully used
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
Color contact carrier	green
Coating of fitting	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.
Installation Cable	
Cable identification	S4X
Function cable	Data
Amount stranding	4
Stranding	2 wires stranded
Amount stranding (type 2)	1
Stranding (type 2)	4 stranding combinations stranded around insulation element
Banding	Foil
Filler	Insulation element
Cable weight	59,53 g/m
Material wire insulation	HDPE
Amount wires	8
Outer diameter insulation	0,9 mm
Outer diameter tolerance core insulation	± 0,05 mm
Ingredient freeness wire insulation	lead-free, CFC-free
Amount strands (wire)	7
Diameter of single wires	26 AWG
Conductor crosssection (wire)	26 AWG
Material conductor wire	copper stranded wire, tinned
Outer-diameter (jacket)	7,4 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	TPE
Shore hardness jacket	80 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, CFC-free
Cable length max.	66 m
Conductor resistance (wire)	212 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire)	84.850 pF/km
Nominal voltage max.	600 V

Loop resistance	424 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 max. (wire)	2 A
Characteristic impedance	100 Ω
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 ² @ 25 °C
No. of torsion cycles	3 Mio. @ 25 °C
Torsion stress	± 270 °/m
Torsion speed	60 cycles/min @ 25 °C