

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

PUR 4x2xAWG26 shielded gn UL/CSA 1m

Art.No.: 7000-51551-7900100

Weight: 0.082 kg

Country of origin: DE

Model designation: MSXBFH-RA-08D790\_1.0-ZS

**Advantages of our connectors:**

Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available [on request](#)

If you are missing technical information? Please feel free to use our [dictionary](#) to find more technical details.

**Product details:**

Product fulfills requirements according to UN/ECE R118

Ethernet CAT6A

Flange female straight – male straight

RJ45 – M12, 8-pole

X-coded

Shielded

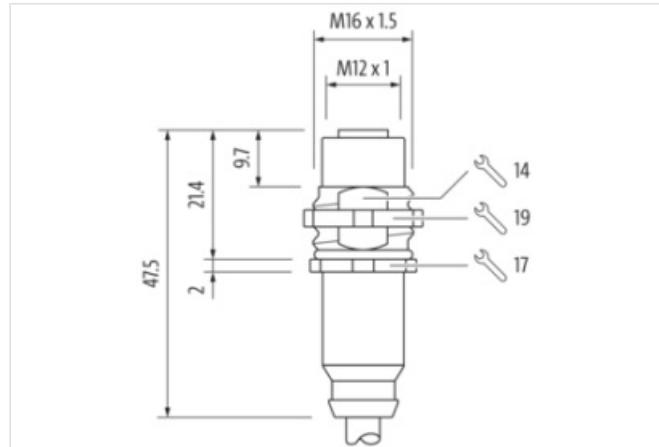
Rear mounting

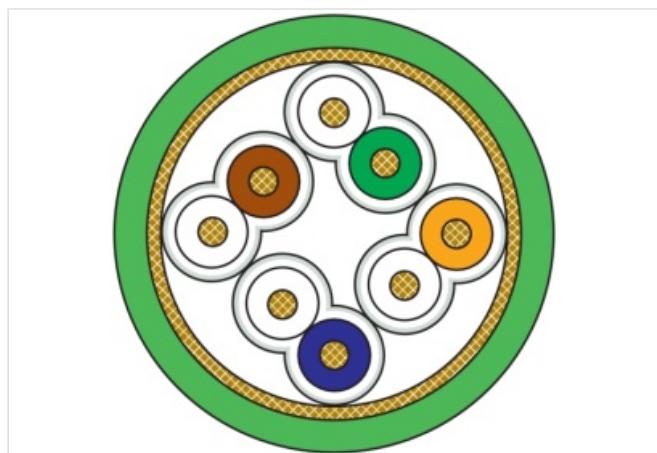
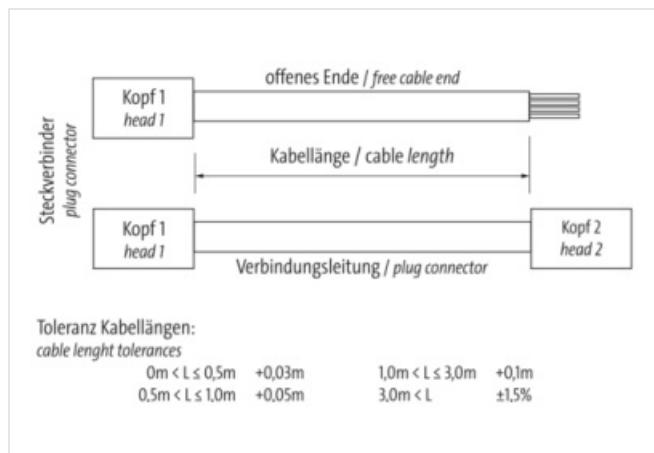
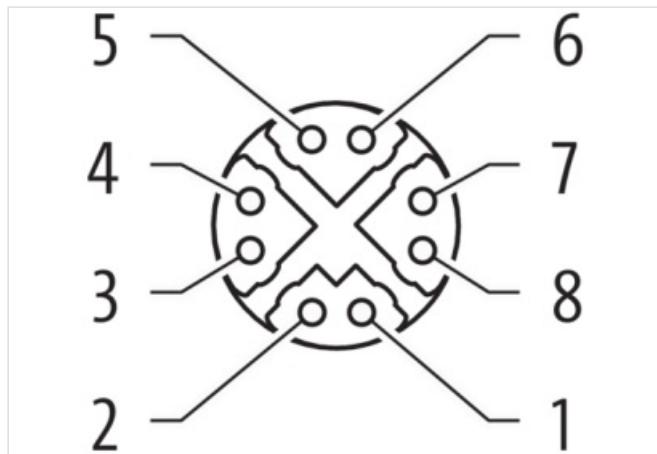
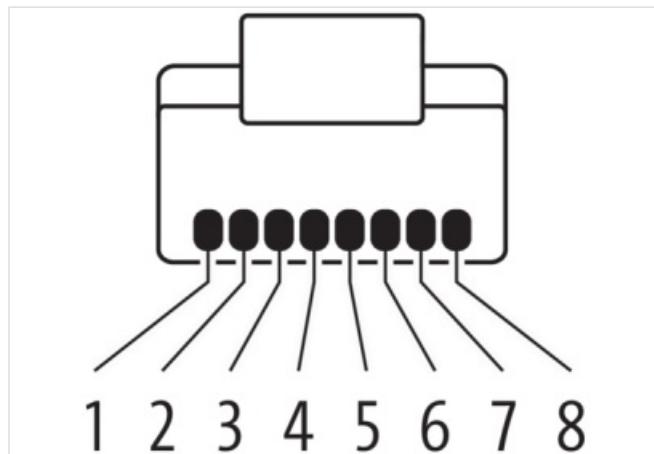
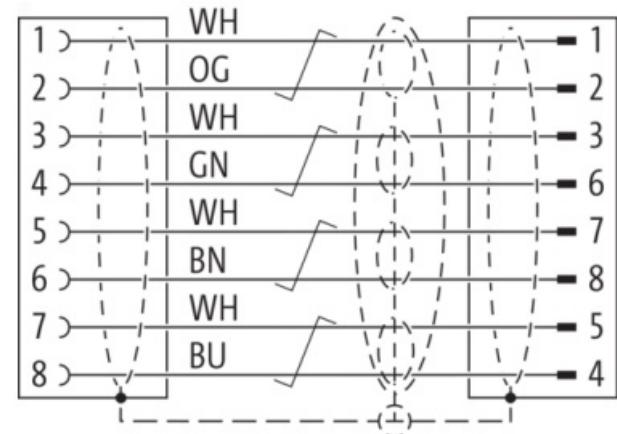
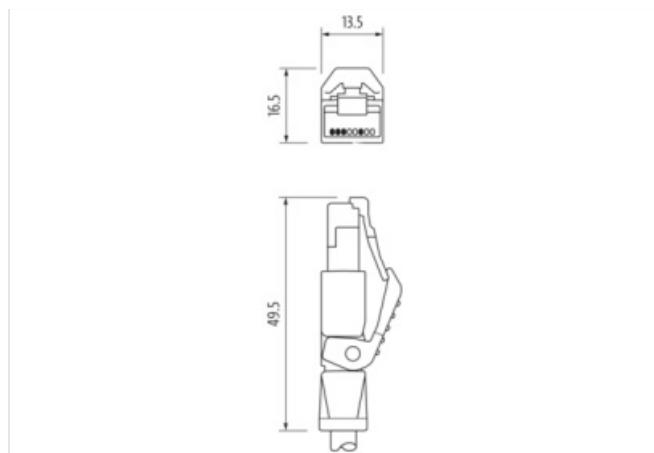
Transmission properties with channel transmission up to 50 m

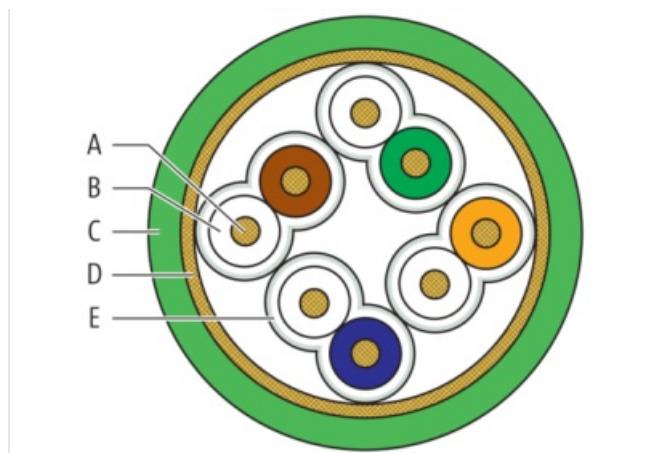
Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

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

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






Product may differ from Image



#### Header

Material short text MSXBFH-RA-08D790\_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

Cable outlet straight

Material PUR

Degree of protection (EN IEC 60529) IP67

#### Side 2

Family construction form RJ45

No. of poles 8

Gender male

Mounting method inserted

Cable outlet straight

Material Brass

Degree of protection (EN IEC 60529) IP20

#### Commercial data

URL Webshop <https://shop.murrelektronik.com/7000-51551-7900100>

GTIN 4048879689540

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

ECCLASS-11.0	27440109
ECCLASS-11.1	27440103
ECCLASS-12.0	27440103
ECCLASS-13.0	27440109
ECCLASS-14.0	27440109
ETIM-5.0	EC002599
ETIM-6.0	EC002599
ETIM-7.0	EC002599
ETIM-8.0	EC002599
customs tariff number	85444290
EAN	4048879689540
Packaging unit	1
<b>Electrical data   Supply</b>	
Operating voltage DC max.	60 V
Current operating per contact max.	0,5 A
<b>Industrial Communication</b>	
Data transmission rate max.	10 Gbit/s
Transfer parameters	CAT6, Class EA (ISO/IEC 11801:2002), (EN 50173-1)
<b>Diagnostics</b>	
Status indication LED	No
<b>Device protection   Electrical</b>	
Protection NEMA	6P, 4, 3
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I
<b>Mechanical data</b>	
Contour for corrugated hose	without
<b>Mechanical data   Material data</b>	
Locking material	Brass
Coating locking	nickel plated
<b>Mechanical data   Mounting data</b>	
Mounting method	inserted, screwed, Shaking protection
<b>Environmental characteristics   Climatic</b>	
Operating temperature min.	-30 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
<b>Important installation notes</b>	
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.
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
<b>Conformity</b>	
Product standard	EN/IEC 61076-2-109 (M12)
<b>Approvals</b>	
UL 50E	Yes
<b>Installation   Cable</b>	
Cable identification	790
Function cable	Data
Amount stranding	4
Stranding	2 wires stranded
Amount stranding (type 2)	1

Stranding (type 2)	4 stranding combinations stranded
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	65 %
Pair shielding (type)	Metal foil
Banding	Foil
Cable weight	48 g/m
Material wire insulation	PE
Amount wires	8
Outer diameter insulation	1,05 mm
Outer diameter tolerance core insulation	- 0,02 mm
Shore hardness wire insulation	65 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Amount strands (wire)	7
Diameter of single wires	34 AWG
Conductor crosssection (wire)	26 AWG
Material conductor wire	Stranded copper wire, bare
Outer-diameter (jacket)	6,4 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	PUR
Shore hardness jacket	89 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Conductor resistance (wire)	140 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire)	44.000 pF/km
Isolation resistance	5.000 MΩ × km
Nominal voltage max.	125 V
Withstand voltage (wire - wire)	2 kV @ 60 s
Withstand voltage (wire - jacket)	2 kV @ 60 s
Withstand voltage (wire - shield)	2 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity max. (wire)	2 A
Operating temperature min. (static)	-40 °C
Operating temperature max. (static)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	UL 1581 § 1090, UL 1581 § 1100, IEC 60332-1-2
Oil resistance	IEC 60811-404, IRM 902
Ozone resistance	EN 50396
Other resistances	resistant to microbes, MUD-resistant (NEK 606)
Bending radius (fixed)	8 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter