

M12 male 0° / male 0° X-cod. shielded

TPE 4x2x26AWG SF/UTP CAT6a bu UL/CSA. CMR 0.6m

Art.No.: 7700-51001-S4X0060

Weight: 0.073 kg

Country of origin: CZ

Model designation: MSXAL0-XA-08D_S4X_0.6-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:

Ethernet CAT6A

Male straight – male straight

M12 – M12, 8-pole

X-coded

without cable sleeves

shielded

Transmission properties with channel transmission up to 50 m

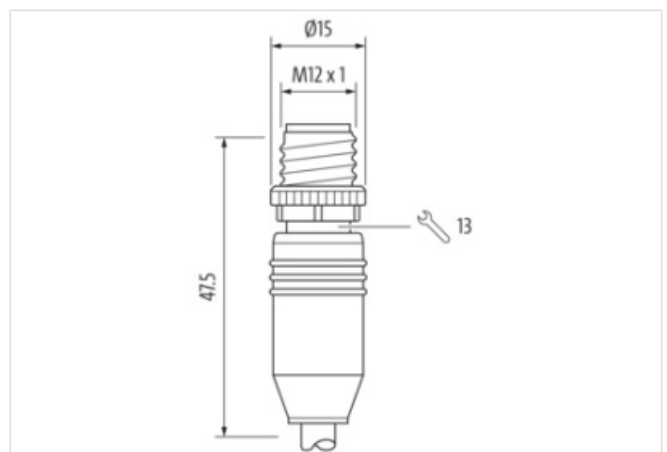
Further cable lengths on request.

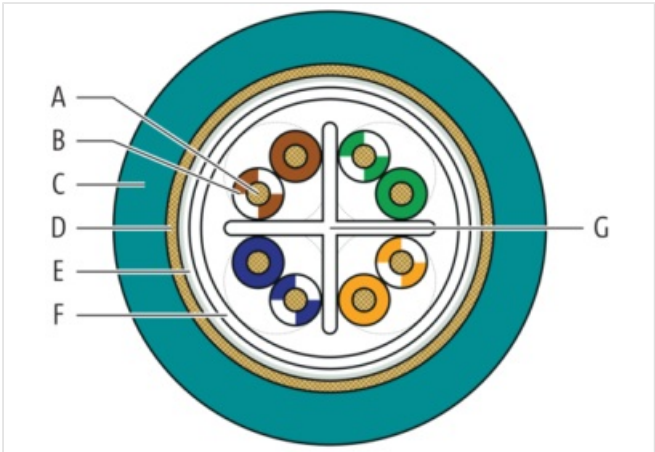
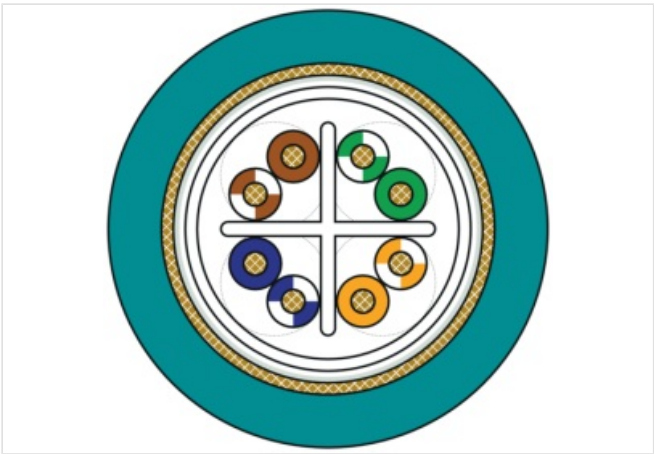
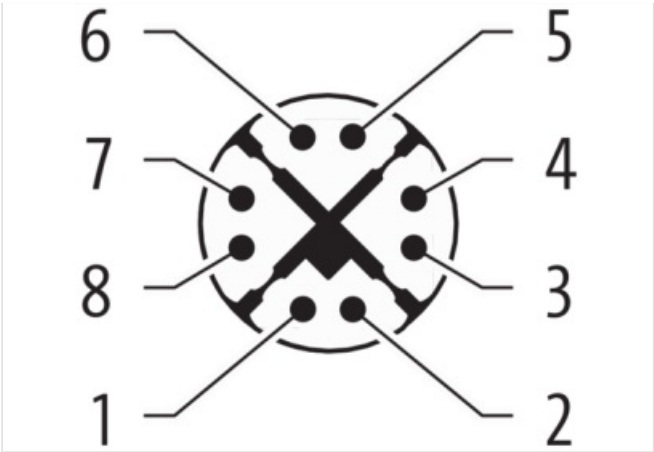
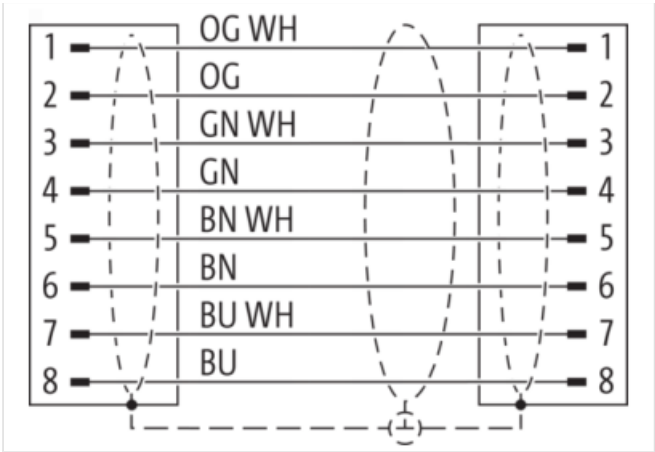
Plastic housings with good resistance against chemicals and oils.

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

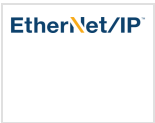
Link to Product

Illustration





Product may differ from Image



Header

Material short text

MSXAL0-XA-08D_S4X_0.6-ZS

Cable length

0,60 m

Side 1

Family construction form	M12
No. of poles	8
Coding	X
Gender	male
Mounting method	inserted, screwed
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW13
Cable outlet	straight
Material	PUR
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP67

Side 2

Family construction form	M12
No. of poles	8
Coding	X
Gender	male
Mounting method	inserted, screwed
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW13
Cable outlet	straight
Material	PUR
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP67

Commercial data

URL Webshop	https://shop.murrelektronik.com/7700-51001-S4X0060
GTIN	4065909152799
ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-7.1	27060307
ECLASS-8.0	27060307
ECLASS-8.1	27060307
ECLASS-9.0	27060307
ECLASS-9.1	27060307
ECLASS-10.0.1	27060307
ECLASS-10.1	27060307
ECLASS-11.0	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ECLASS-13.0	27060307
ECLASS-14.0	27060307
customs tariff number	85444290
EAN	4065909152799
Packaging unit	1
customs tariff number	85444290
EAN	4065909152799
Packaging unit	1

Electrical data | Supply

Operating voltage DC max.	60 V
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Current operating per contact max. 1,5 A

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

Device protection | Electrical

Degree of protection (EN IEC 60529) IP67
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 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 $\pm 0,05$ mm
Ingredient freeness wire insulation CFC-free, lead-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) CFC-free, lead-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