

M12 male 0° / M12 male 0° X-cod. shielded

PUR 4x2xAWG26/7 shielded gn UL/CSA 5m

Art.No.: 7000-51001-7900500

Weight: 0.253

Country of origin: CZ

Model designation: MSXAL0-XA-08D790_5.0-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.

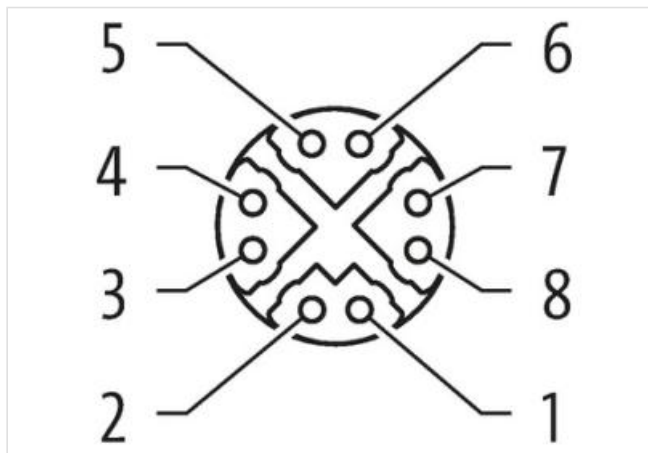
The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

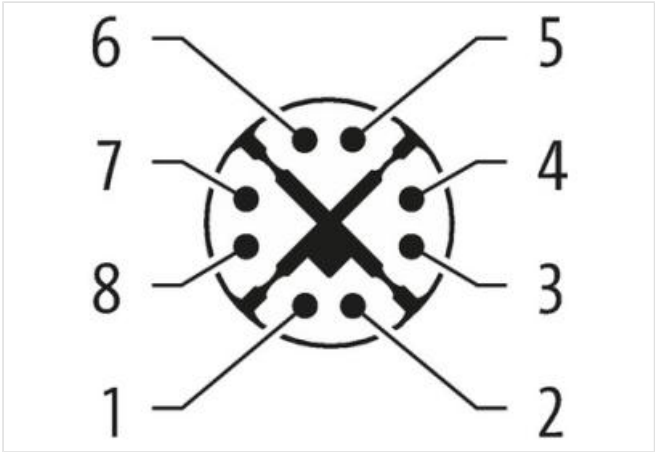
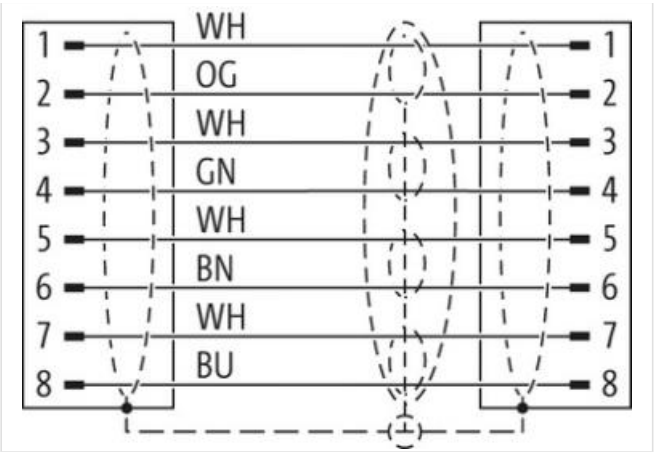
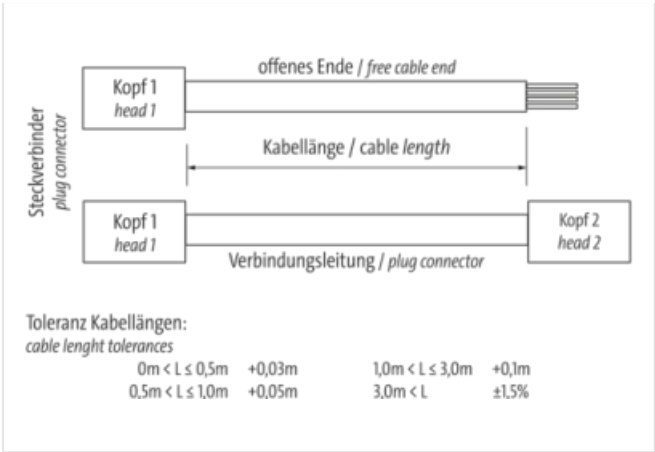
Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available [on request](#)

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

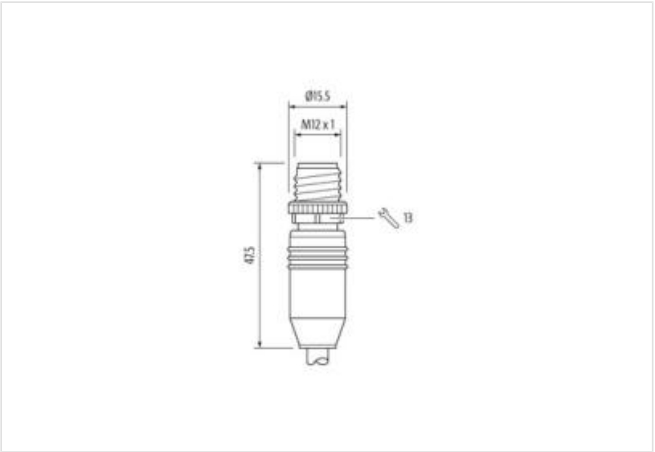
Product details:

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

Ethernet CAT6A**Male straight – male straight****M12 – M12, 8-pole****Product fulfills requirements according to UN/ECE R118****X-coded****shielded****Transmission properties with channel transmission up to 50 m****Further cable lengths on request.****Plastic housings with good resistance against chemicals and oils.****Link to Product****Illustration**



Product may differ from Image



Cable length	5 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Gender	male
Cable outlet	straight
Coding	X
Material contact	Copper alloy
Material	PUR
No. of poles	8
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP67
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed

Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Gender	male
Cable outlet	straight
Coding	X
Material contact	Copper alloy
Material	PUR
No. of poles	8
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP67
Commercial data	
ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-8.0	27060307
ECLASS-9.0	27060307
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC002599
customs tariff number	85444290
customs tariff number	85444290
customs tariff number	85444290
EAN	4048879536684
EAN	4048879536684
EAN	4048879536684
Packaging unit	1
Packaging unit	1
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	50 V
Operating voltage DC max.	60 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	0,5 A
Industrial communication	
Transfer parameters	CAT6, Class EA (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	10 GBit/s
Diagnostics	
Status indication LED	no
Device protection Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	I
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
Coating locking	Nickeled

Locking material Zinc die-casting

Mechanical data | Mounting data

Mounting method inserted, screwed, Shaking protection

Environmental characteristics | Climatic

Operating temperature min. -25 °C

Operating temperature max. 85 °C

Additional condition temperature range depending on cable quality

Important installation notes

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

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.

Conformity

Product standard DIN EN 61076-2-109 (M12)

Installation | Cable

wire arrangement (white, orange), (white, blue), (white, brown), (white, green)

Cable identification 790

Jacket Color green

Type of Certificate cURus

Amount stranding 4

Stranding 2 wires twisted

Amount stranding (type 2) 1

Stranding (type 2) 4 Stranded joints twisted

Cable shielding (type) copper braid, tinned

Cable shielding (coverage) 65 %

Pair shielding (type) Metal foil

Banding Foil

wire arrangement (white, orange), (white, blue), (white, brown), (white, green)

Cable weight 52,8 g/m

Material jacket PUR

Shore hardness jacket 89 Shore A

Freedom from ingredients (jacket) lead-free, CFC-free, halogen-free

Outer-diameter (jacket) 6,4 mm

Tolerance outer diameter (sheath) ± 5 %

Material wire insulation PE

Amount wires 8

Outer diameter insulation 1,05 mm

Outer diameter tolerance core insulation ± 5 %

Shore hardness wire insulation 65 Shore D

Ingredient freeness wire insulation lead-free, CFC-free, halogen-free

Amount strands (wire) 7

Diameter of single wires 26 AWG

Conductor crosssection (wire) 26 AWG

Material conductor wire Stranded copper wire, bare

Nominal voltage AC max. 125 V

Current load capacity (standard) to DIN VDE 0298-4

Current load capacity min. wire 2 A

Electrical resistance line constant wire 140 Ω/km @ 20 °C

AC withstand voltage (wire - wire) 2 kV @ 60 s

Electrical capacity line constant (wire - wire) 44000 pF/km

Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s

AC withstand voltage (wire - shield) 2 kV @ 60 s

Isolation resistance 5000 MΩ × km

Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing DIN EN 60811-404
Bending radius (fixed)	8 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter

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