

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

PUR 4x2xAWG26/7 shielded gn UL/CSA 15m

Art.No.: 7000-51001-7901500

Weight: 0.72

Country of origin: CZ

Model designation: MSXAL0-XA-08D790 15.0-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

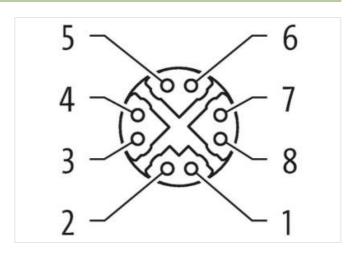
Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

## **Link to Product**

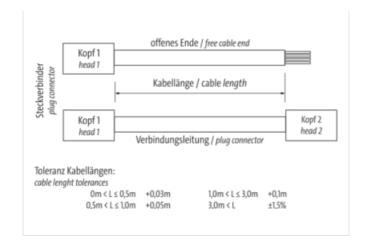
# Illustration

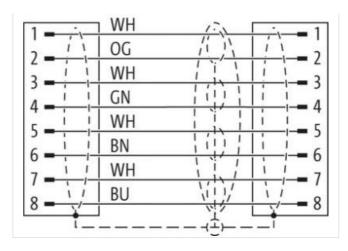


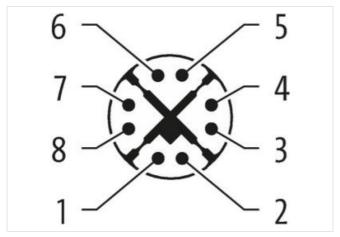


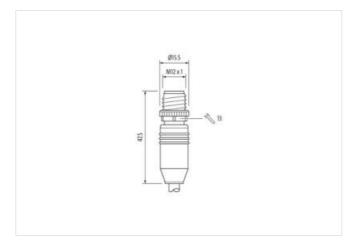


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Product may differ from Image



Cable length 15 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  Side 2	le length	15 m
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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	ntening torque (	0,6 Nm
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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	iting contact ç	gold plated
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	nily construction form	M12
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	ead N	M12 x 1
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         Possible 2	nder r	male
Material contact         Copper alloy           Material         PUR           No. of poles         8           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP67           Side 2	le outlet s	straight
Material PUR  No. of poles 8  Width across flats SW13  Degree of protection (EN IEC 60529) IP65, IP67  Side 2	ling >	X
No. of poles 8 Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP67 Side 2	erial contact (	Copper alloy
Width across flats SW13  Degree of protection (EN IEC 60529) IP65, IP67  Side 2	erial F	PUR
Degree of protection (EN IEC 60529) IP65, IP67 Side 2	of poles 8	8
Side 2	th across flats	SW13
	ree of protection (EN IEC 60529)	IP65, IP67
Tightening torque 0.6 Nm	le 2	
rightening torque	ntening torque (	0,6 Nm
Mounting method inserted, screwed	unting method i	inserted, screwed



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Continuo	
Coating contact	gold plated M12
Family construction form	
Thread	M12 x 1
Gender Cable outlet	male
	straight X
Coding	
Material contact	Copper alloy
Material	PUR
No. of poles	8
Width across flats  Degree of protection (EN IEC 60529)	SW13
	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	4048879556071
EAN	4048879556071
EAN	4048879556071
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	70
	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

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: 2025-09-06



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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)
	DIV 21 01070 2 100 (WIL2)
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 weigth	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)  Power frequency withstand voltage (wire -	44000 pF/km
jacket)	2 kV @ 60 s
AC withstand voltage (wire - shield)	2 kV @ 60 s
Isolation resistance	$5000 \text{ M}\Omega \times \text{km}$



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