

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

PUR 4x2xAWG26/7 shielded gn UL/CSA 10m

Art.No.: 7000-51001-7901000

Weight: 0.483 Country of origin: CZ

Model designation: MSXAL0-XA-08D790 10.0-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

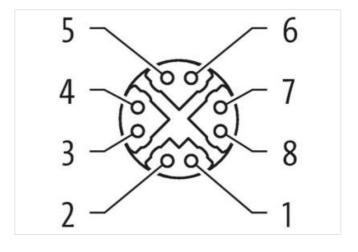
Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

### **Link to Product**

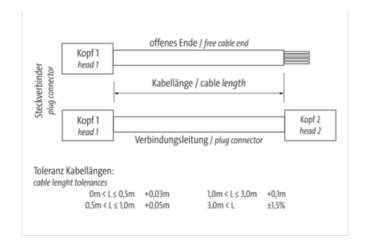
# Illustration

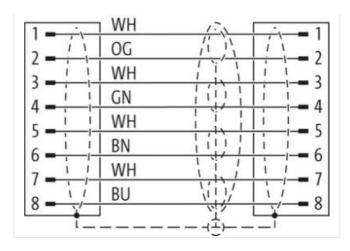


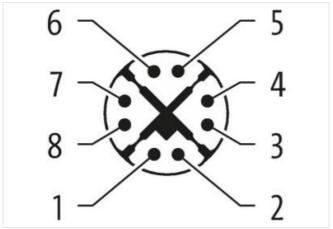


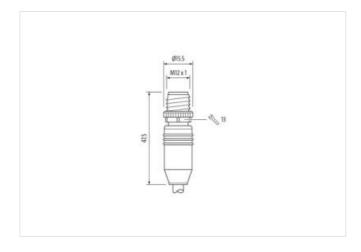


stay connected









Product may differ from Image



Cable length	10 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	Х
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



stay connected

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  Degree of protection (EN IEC 60529)	SW13 IP65, IP67
	1603, 1607
Commercial data	07004004
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 ECLASS-12.0	27060307
ETIM-5.0	27060307
-	EC002599
customs tariff number	85444290
customs tariff number	85444290
customs tariff number	85444290
EAN	4048879536707
EAN EAN	4048879536707
	4048879536707
Packaging unit Packaging unit	1
Packaging unit	<u> </u>
	'
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)	
g. cap (120 0000 / 1)	I
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
Coating locking	Nickeled



stay connected

Locking material	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
	institut, soremat, onatting 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	
	(white grange) (white blue) (white brown) (white grange)
wire arrangement  Cable identification	(white, orange), (white, blue), (white, brown), (white, green)  790
Jacket Color	
	cURus
Type of Certificate  Amount stranding	4
Stranding Stranding	2 wires twisted
Amount stranding (type 2)	2 wires twisted
Stranding (type 2)	4 Stranded joints twisted
Cable shielding (type)	copper braid, tinned 65 %
Cable shielding (coverage)	Metal foil
Pair shielding (type)	Foil
Banding	
wire arrangement	(white, orange), (white, blue), (white, brown), (white, green)
Cable weigth  Material jacket	52,8 g/m PUR
	89 Shore A
Shore hardness jacket	
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Outer-diameter (jacket)  Tolerance outer diameter (sheath)	6,4 mm ± 5 %
Material wire insulation  Amount wires	PE 8
Outer diameter insulation  Outer diameter tolerance core insulation	1,05 mm ± 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 - wir	<del>-</del>
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