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

PUR 4x2xAWG26/7 shielded gn UL/CSA 3m

Art.No.: 7000-51001-7900300
Weight: 0.164
Country of origin: CZ
Model designation: MSXAL0-XA-08D790_3.0-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.

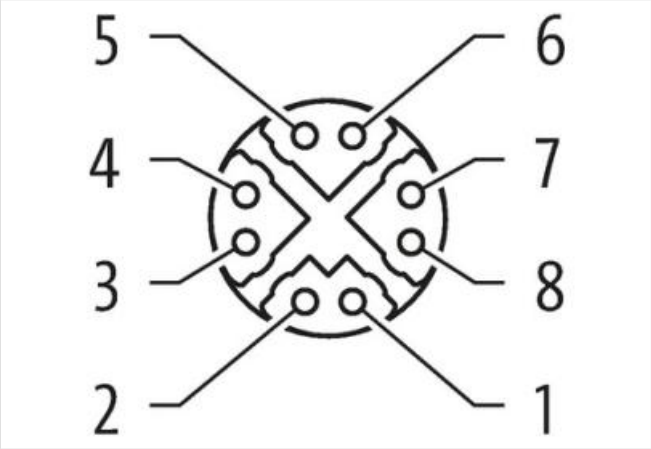
Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available on request

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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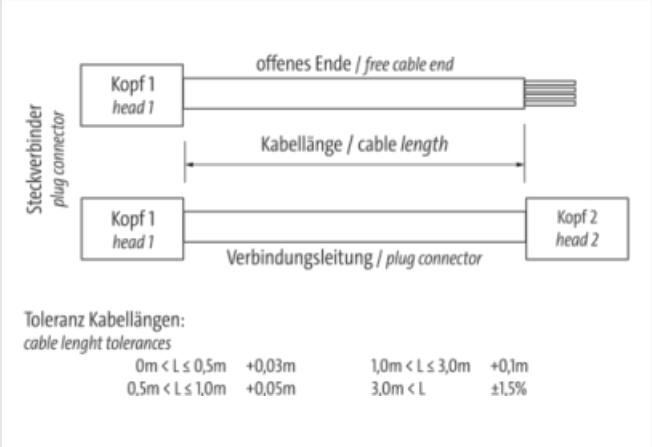
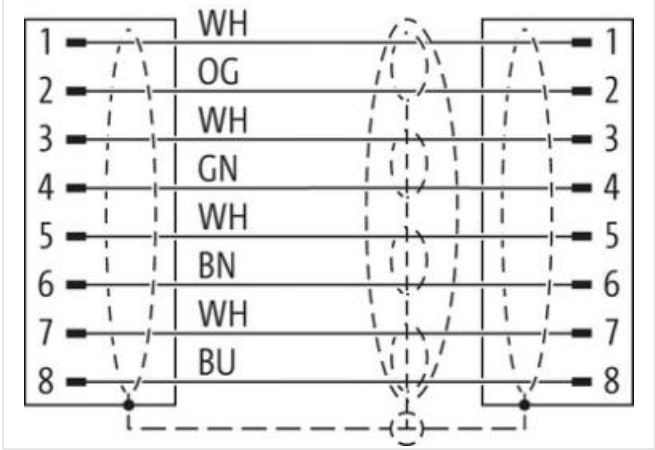
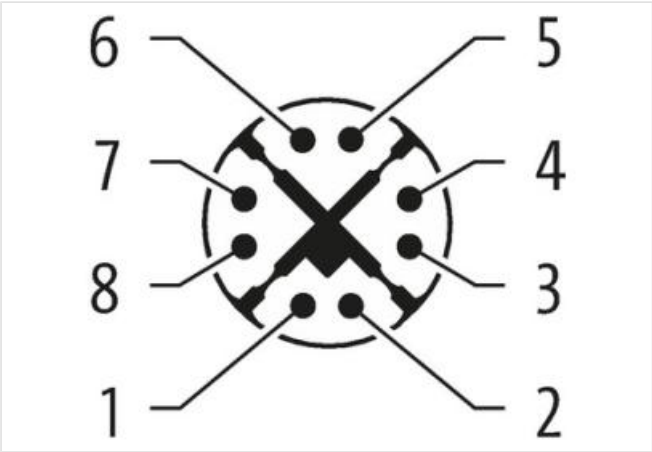
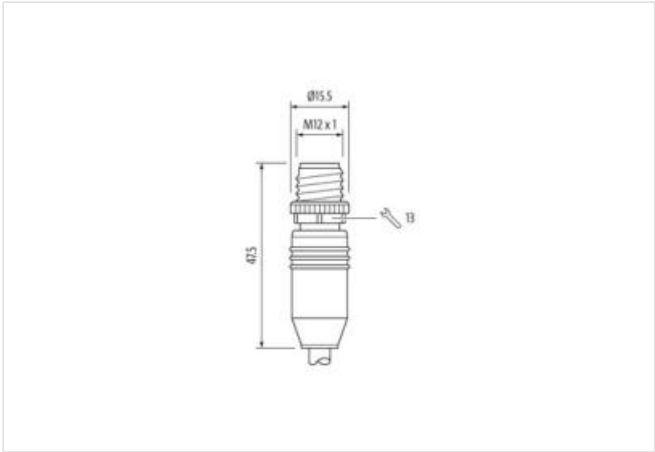
stay connected









Product may differ from Image

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Cable length	**3 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**

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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
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	4048879536677
EAN	4048879536677
EAN	4048879536677
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

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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)**
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)	**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**