M12 male 0° / M12 female 0° Y-cod. shielded

PUR AWG20/26 shielded gn UL/CSA+drag ch. 10m

Art.No.: 7000-47051-8311000
Weight: 1.011
Country of origin: DE
Model designation: MSYBL0-YA-08D831_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.

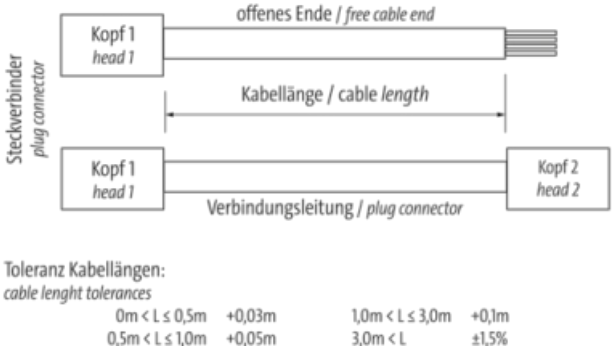
Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available on request

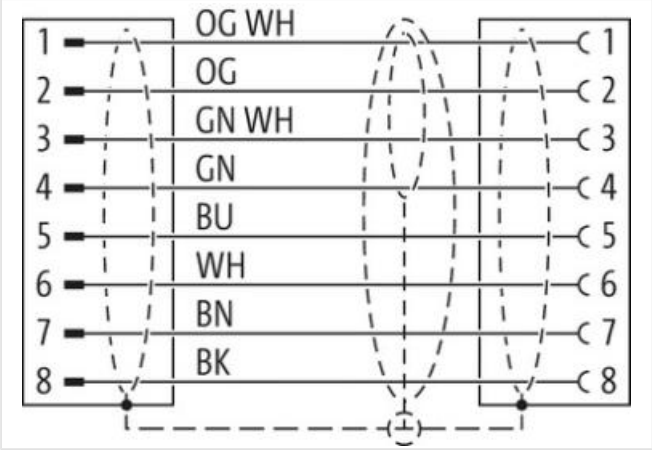
If you are missing technical information? Please feel free to use our dictionary to find more technical details.

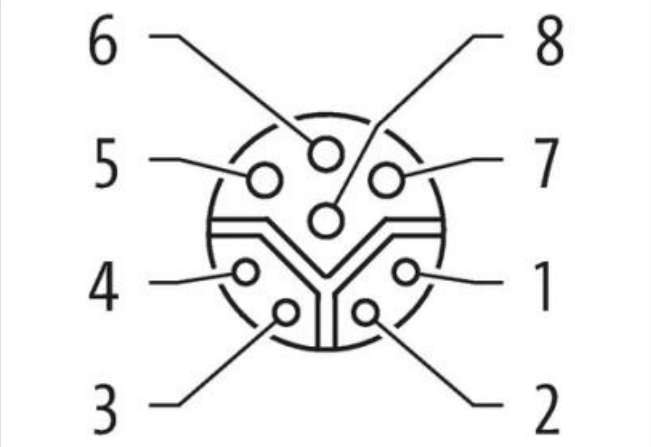
Product details:
The resistance to aggressive media should be individually tested for your application. Further details on request.
Ethernet CAT5
Male straight – female straight
M12 – M12, 8-pole
Y-coded
shielded
Transmission properties with channel transmission up to 50 m
Further cable lengths on request.
Plastic housings with good resistance against chemicals and oils.

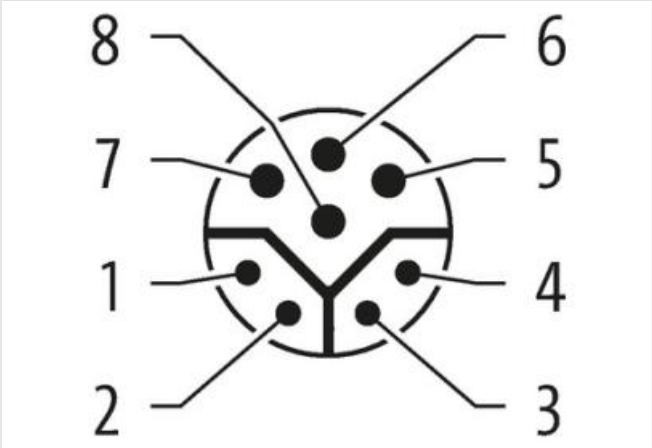
Link to Product

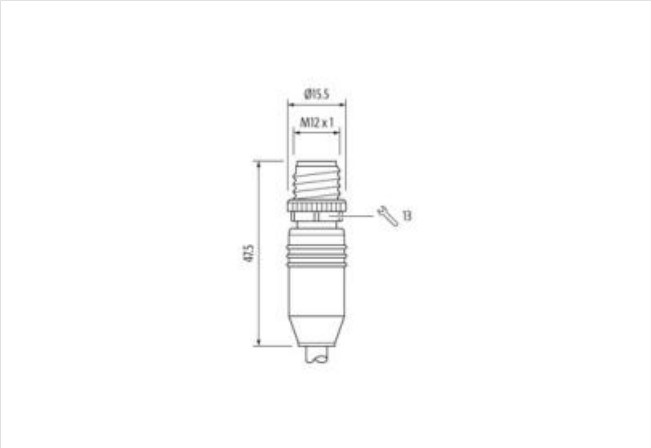
Illustration

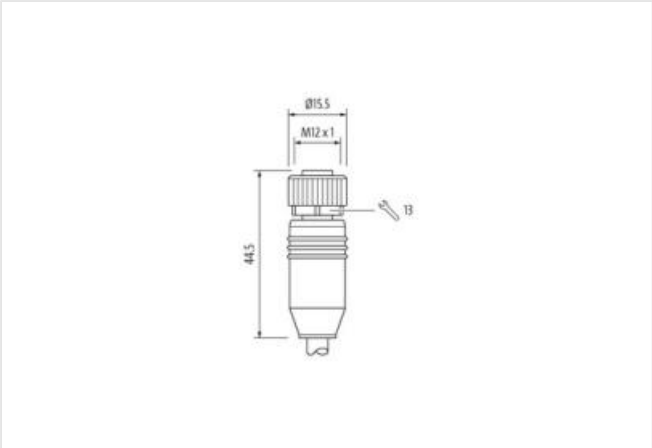












Product may differ from Image

Cable length	**10 m**
Side 1	
Tightening torque	**0,6 Nm**

Mounting method	**inserted, screwed**
Family construction form	**M12**
Thread	**M12 x 1**
Gender	**male**
Cable outlet	**straight**
Coding	**Y**
Material	**PUR**
No. of poles	**8**
Width across flats	**SW13**
Degree of protection (EN IEC 60529)	**IP65, IP66K, IP67**
Side 2	
Tightening torque	**0,6 Nm**
Mounting method	**inserted, screwed**
Family construction form	**M12**
Thread	**M12 x 1**
Gender	**female**
Cable outlet	**straight**
Coding	**Y**
Material	**PUR**
No. of poles	**8**
Width across flats	**SW13**
Degree of protection (EN IEC 60529)	**IP65, IP66K, 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	**EC001855**
customs tariff number	**85444290**
customs tariff number	**85444290**
EAN	**4048879642606**
EAN	**4048879642606**
Packaging unit	**1**
Packaging unit	**1**
Electrical data | Supply	
Operating voltage AC max.	**50 V**
Operating voltage DC max.	**50 V**
Operating voltage AC (UL-listed)	**30 V**
Operating voltage DC (UL-listed)	**30 V**
Current operating per contact (UL)	**3,3 A**
Operating current per data contact max.	**0,5 A**
Operating current per power contact max.	**6 A**
Industrial communication	
Transfer parameters	**CAT5e, Class D (ISO/IEC 11801)**
Data transmission rate max.	**100 MBit/s**
Industrial communication | Ethernet functionality	
duplex	**Full duplex**
Diagnostics	

MURR ELEKTRONIK
stay connected

Status indication LED	**no**
Installation | Pin assignment	
Configuration	**fully used**
Device protection | Electrical	
Degree of protection (EN IEC 60529)	**IP65, IP67, IP66K**
Additional condition protection degree	**inserted, screwed**
Pollution Degree	**3**
Rated surge voltage	**0,8 kV**
Material group (IEC 60664-1)	**I**
Mechanical data	
Contour for corrugated hose	**without**
Mechanical data | Material data	
Color housing	**black**
Coating locking	**Nickeled**
Color contact carrier	**green**
Material gasket	**FKM**
Locking material	**Zinc die-casting**
Material screw connection	**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 61076-2-113 (M12)**
Installation | cable 2	
Cable identification	**831**
Function cable	**Hybrid, Data, Power**
Jacket Color	**green**
Type of Certificate	**cURus**
Amount stranding	**1**
Stranding	**4 wires around Core filler star-shaped twisted**
Amount stranding (type 2)	**1**
Stranding (type 2)	**4 wires with 1 Stranding combination with Filler twisted**
Cable shielding (type)	**copper braid, tinned**
Cable shielding (coverage)	**85 %**
Pair shielding (type)	**copper braid, tinned**
Banding	**Fleece, Foil**
wire arrangement	**(black, brown, white, blue), (orange-white, orange, green-white, green)**
Cable weigth	**107,8 g/m**
Material jacket	**PUR**
Shore hardness jacket	**90 ± 5 Shore A**
Freedom from ingredients (jacket)	**lead-free, cadmium-free, CFC-free, halogen-free, silicone-free**
Outer-diameter (jacket)	**8,1 mm**
Tolerance outer diameter (sheath)	**± 5 %**
Material wire insulation	**PP**

MURR ELEKTRONIK
stay connected

Amount wires	4
Outer diameter insulation	1,5 mm
Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	55 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	19
Diameter of single wires	32 AWG
Conductor crosssection (wire)	20 AWG
Material conductor wire	Stranded copper wire, bare
Material wire insulation (Data)	PP
Outer diameter wire insulation (Data)	1,1 mm
Tolerance outer diameter wire insulation (data)	± 5 %
Shore hardness wire insulation (Data)	55 ± 5 Shore D
Ingredient freeness wire insulation (Data)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount wires (Data)	4
Amount strands wire (Data)	19
Diameter of single wires (Data)	38 AWG
Conductor crosssection wire (Data)	26 AWG
Material conductor wire (Data)	Stranded copper wire, bare
Nominal voltage AC max.	60 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. Wire (Data)	2,4 A
Current carrying capacity min. wire (Power)	7,2 A
Characteristic impedance	100 Ω ± 15 % @ 1 MHz
Electrical resistance line constant wire	35 Ω/km
Electrical resistance coating wire (Data)	140 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	1 kV @ 60 s
Electrical capacity line constant (wire - wire)	52000 pF/km
Power frequency withstand voltage (wire - jacket)	1 kV @ 60 s
AC withstand voltage (wire - shield)	1 kV @ 60 s
Isolation resistance	5000 MΩ × km
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
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	DIN EN 60811-404 | Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	5 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 30 °/m
Torsion speed	35 cycles/min