

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

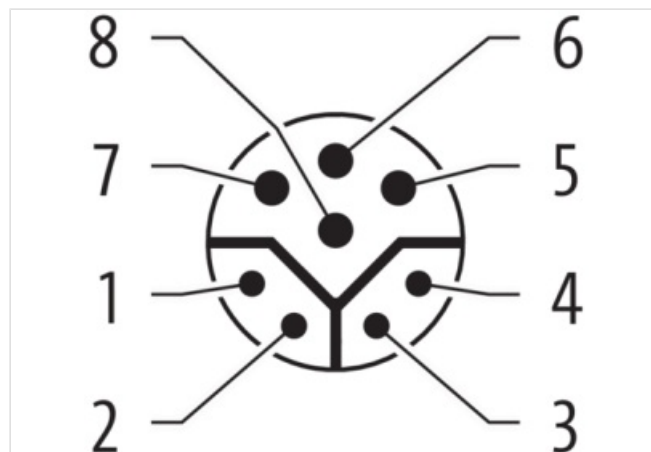
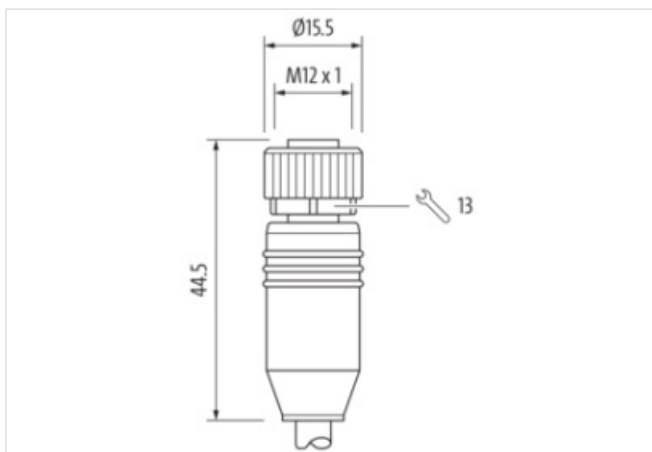
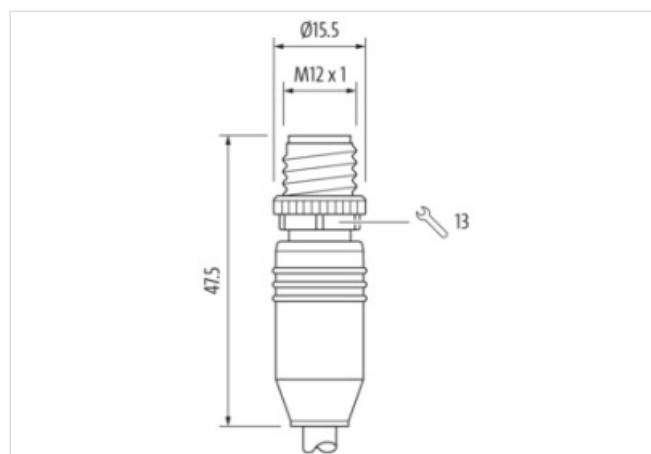
PUR AWG20/26 shielded gn UL/CSA+drag ch. 15m

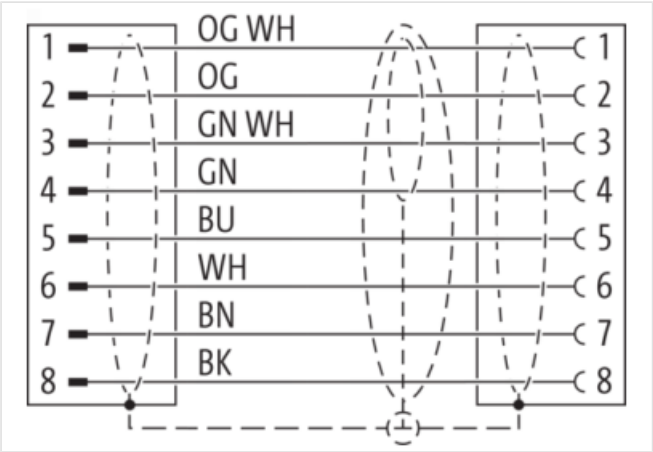
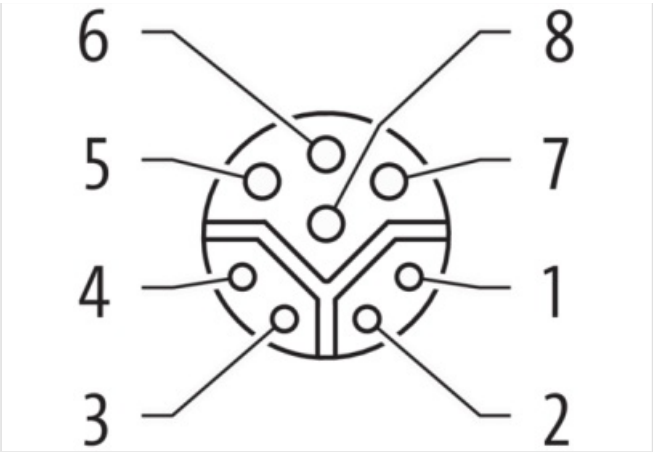
Art.No.: 7000-47051-8311500

Weight: 1.647

Country of origin: DE

Model designation: MSYBL0-YA-08D831\_15.0-ZS

**Link to Product****Illustration**



Product may differ from Image



1

Header	
Cable length	15.0 m
Side 1	
Family construction form	M12
No. of poles	8
Coding	Y
Gender	male
Mounting method	inserted, screwed
Thread	M12 x 1
Tightening torque	0.6 Nm
Width across flats	SW13
Cable outlet	straight
Material	PUR
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Family construction form	M12

No. of poles	8
Coding	Y
Gender	female
Mounting method	inserted, screwed
Thread	M12 x 1
Tightening torque	0.6 Nm
Width across flats	SW13
Cable outlet	straight
Material	PUR
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67

**Commercial data**

URL Webshop	<a href="https://shop.murrelektronik.com/7000-47051-8311500">https://shop.murrelektronik.com/7000-47051-8311500</a>
GTIN	4048879716574
ECLASS-6.0	27279218
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-7.1	27060307
ECLASS-8.0	27060307
ECLASS-8.1	27060307
ECLASS-9.0	27060307
ECLASS-9.1	27060307
ECLASS-10.0.1	27060307
ECLASS-10.1	27060307
ECLASS-11.0	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ECLASS-13.0	27060307
ECLASS-14.0	27060307
ETIM-5.0	EC000830
ETIM-6.0	EC000830
EAN	4048879716574

**Electrical data | Supply**

Operating voltage AC max.	50 V
Operating voltage DC max.	50 V
Operating current per data contact max.	0.5 A
Operating current per power contact max.	6 A

**Industrial communication**

Data transmission rate max.	100 MBit/s
Transfer parameters	CAT5e, Class D (ISO/IEC 11801)

**Industrial communication | Ethernet functionality**

duplex	Full duplex
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**Device protection | Electrical**

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
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**Mechanical data | Material data**

Material screw connection	Zinc die-casting
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Coating of fitting	nickel plated
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Material gasket	FKM
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#### Environmental characteristics | Climatic

Operating temperature min.	-30 °C
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Operating temperature max.	85 °C
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Additional condition temperature range	depending on cable quality
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#### Important installation notes

Note on bending radius	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
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Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
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#### Conformity

Product standard	DIN EN 61076-2-113 (M12)
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#### Installation | Cable

Function cable	Hybrid, Data, Power
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Amount stranding	1
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Stranding	Wires
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Amount stranding (type 2)	1
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Stranding (type 2)	Wires
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Cable shielding (type)	copper braid, tinned
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Cable shielding (coverage)	85 %
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Pair shielding (type)	copper braid, tinned
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Pair shielding (coverage)	85 %
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Banding	Fleece, Foil
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Wire arrangement	(, black, brown, white, blue, ), orange-white, orange, green-white, green
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Cable weight	107.8
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Material wire insulation	PP
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Amount wires	4
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Outer diameter insulation	1.5 mm
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Outer diameter tolerance core insulation	± 0.1 mm
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Shore hardness wire insulation	55
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Ingredient freeness wire insulation	CFC-free, cadmium-free, silicone-free, halogen-free, lead-free
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Amount strands (wire)	19
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Diameter of single wires	32 AWG
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Conductor crosssection (wire)	20 AWG
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Material conductor wire	Stranded copper wire, bare
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Material wire insulation (type 2)	PP
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Outer diameter wire insulation (type 2)	1.1 mm
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Tolerance outer diameter wire insulation (type 2)	± 0.1 mm
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Shore hardness wire insulation (type 2)	55
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Ingredient freeness wire insulation (type 2)	CFC-free, cadmium-free, silicone-free, halogen-free, lead-free
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Amount wires (type 2)	4
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Amount strands wire (type 2)	19
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Diameter of single wires (type 2)	38 AWG
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Conductor crosssection wire (type 2)	26 AWG
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Material conductor wire (type 2)	Stranded copper wire, bare
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Outer-diameter (jacket)	8.1 mm
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Tolerance outer diameter (sheath)	± 5 %
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Material jacket	PUR
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Shore hardness jacket	90
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Freedom from ingredients (jacket)	CFC-free, cadmium-free, silicone-free, halogen-free, lead-free
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Material property (jacket)	matte, good machinability, abrasion-resistant, low adhesion
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Conductor resistance (wire)	35 $\Omega$ /km
Conductor resistance (wire type 2)	140 $\Omega$ /km @ 20 °C
Electrical capacity line constant (wire - wire)	52,000 pF/km
Isolation resistance	5,000 M $\Omega$ × km
Nominal voltage AC max.	60 V
Withstand voltage (wire - wire)	1 kV @ 60 s
Withstand voltage (wire - jacket)	1 kV @ 60 s
Withstand voltage (wire - shield)	1 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. Wire (type 2)	2.4 A
Current carrying capacity min. wire (type 3)	7.2 A
Characteristic impedance	100 $\Omega$ 15 %
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
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	10 × 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
Acceleration (C-track)	5 m/s <sup>2</sup> @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	30 °/m
Torsion speed	35 cycles/min