

**M12 male 0° Y-cod. with cable shielded**

PUR AWG20/26 shielded bk UL/CSA+drag ch. 5m

Art.No.: 7000-15501-8050500

Weight: 0.511

Country of origin: CZ

Model designation: MSYAL0-08D805\_5.0-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:Ethernet CAT5**

**Male straight**

**M12, 8-pole**

**Y-coded**

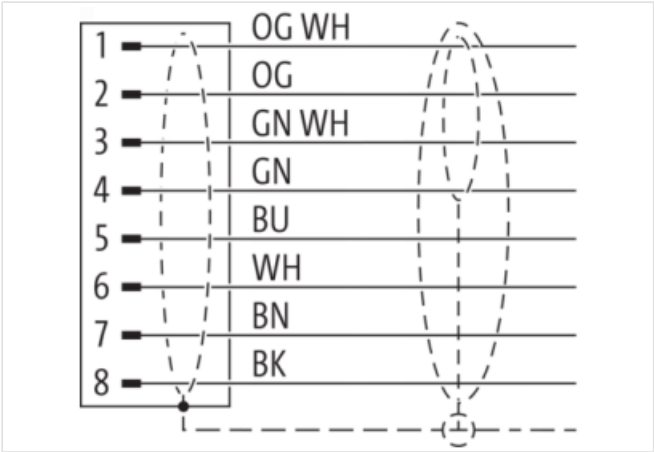
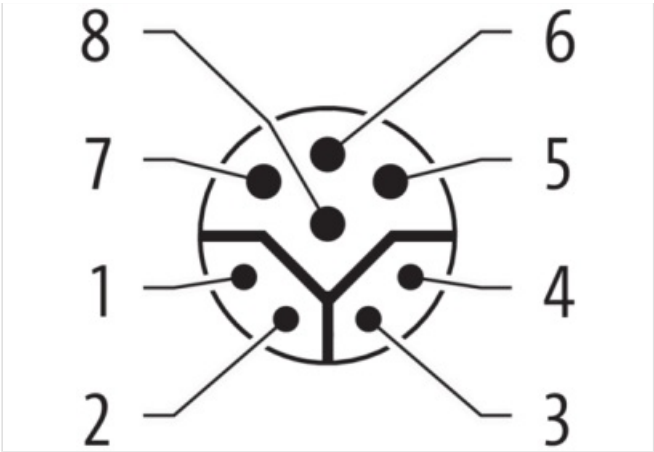
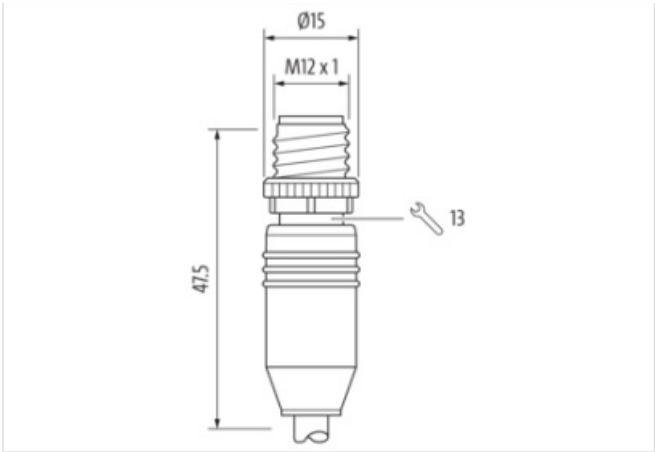
**shielded**

**Further cable lengths on request.**

**Plastic housings with good resistance against chemicals and oils.**

**The resistance to aggressive media should be individually tested for your application. Further details on request.**

**[Link to Product](#)****Illustration**



Product may differ from Image



Header	
Cable length	5.0 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	free cable end

Stripping length (jacket) 80 mm

#### Commercial data

URL Webshop <https://shop.murrelektronik.com/7000-15501-8050500>  
 customs tariff number 85444290  
 EAN 4048879519328  
 Packaging unit 1

#### 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 CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)

#### Industrial communication | Ethernet functionality

duplex Full duplex

#### 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

#### Mechanical data | Material data

Material screw connection Zinc die-casting  
 Coating of fitting nickel plated

#### Environmental characteristics | Climatic

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

#### Important installation notes

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.  
 Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.

#### Conformity

Product standard DIN EN 61076-2-113 (M12)

#### Installation | Cable

Function cable Hybrid, Data, Power  
 Amount stranding 1  
 Stranding Wires  
 Amount stranding (type 2) 1  
 Stranding (type 2) Wires  
 Cable shielding (type) copper braid, tinned  
 Cable shielding (coverage) 85 %  
 Pair shielding (type) copper braid, tinned  
 Pair shielding (coverage) 85 %  
 Banding Fleece, Foil  
 Filler yes  
 Wire arrangement orange-white, green, orange, green-white, (, black, brown, white, blue, )  
 Cable weight 107.8 g/m

Material wire insulation	PP
Amount wires	4
Outer diameter insulation	1.5 mm
Outer diameter tolerance core insulation	± 0.1 mm
Shore hardness wire insulation	55
Ingredient freeness wire insulation	CFC-free, cadmium-free, silicone-free, halogen-free, lead-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 (type 2)	PP
Outer diameter wire insulation (type 2)	1.25 mm
Tolerance outer diameter wire insulation (type 2)	± 0.1 mm
Shore hardness wire insulation (type 2)	55
Ingredient freeness wire insulation (type 2)	CFC-free, cadmium-free, silicone-free, halogen-free, lead-free
Amount wires (type 2)	4
Amount strands wire (type 2)	19
Diameter of single wires (type 2)	38 AWG
Conductor crosssection wire (type 2)	26 AWG
Material conductor wire (type 2)	Stranded copper wire, bare
Outer-diameter (jacket)	8.1 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	PUR
Shore hardness jacket	90
Freedom from ingredients (jacket)	CFC-free, cadmium-free, silicone-free, halogen-free, lead-free
Material property (jacket)	matte, good machinability, abrasion-resistant, low adhesion
Conductor resistance (wire)	35 Ω/km
Conductor resistance (wire type 2)	140 Ω/km
Electrical capacity line constant (wire - wire)	52,000 pF/km
Isolation resistance	5,000 MΩ × 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	7.2 A
Current load capacity min. Wire (type 2)	2.4 A
Characteristic impedance	100 Ω 15 MHz
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/s² @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	30 °C
Torsion speed	35 cycles/min