

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

PUR AWG20/26 shielded gn UL/CSA+drag ch. 1.5m

Art.No.: 7000-47051-8310150

Weight: 0.178 kg Country of origin: CZ

Model designation: MSYBL0-YA-08D831 1.5-ZS

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.

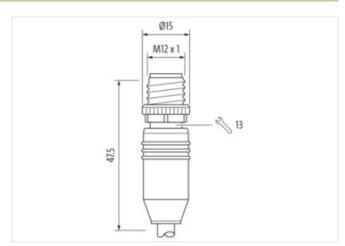
Plastic housings with good resistance against chemicals and oils.

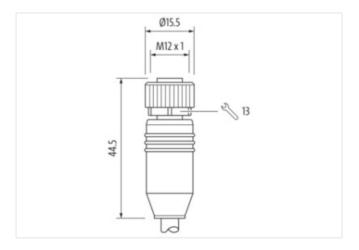
The resistance to aggressive media should be individually tested for your application. Further details on request.

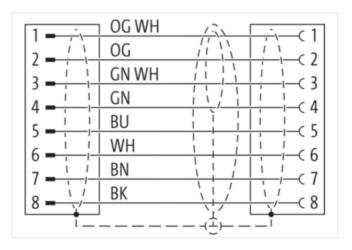
Link to Product

Illustration



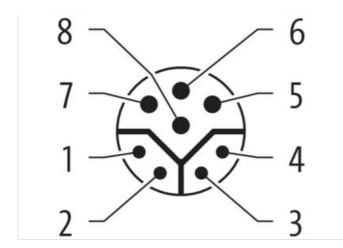


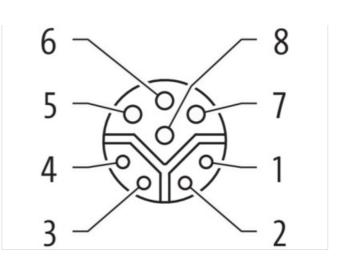


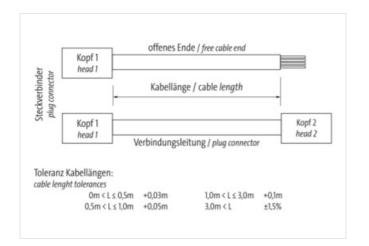




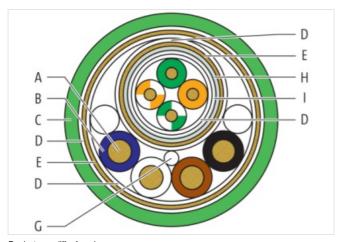
stay connected











Product may differ from Image











EtherNet/IP

Header

Material short text

MSYBL0-YA-08D831_1.5-ZS

Cable length

1,50 m



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0:4-4	
Side 1	
Family construction form	M12
No. of poles	8
Coding	Υ
Gender	male
Mounting method	inserted, screwed
Threaded hole	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
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW13
Cable outlet	straight
Material	PUR
Material contact	Copper alloy
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Coating contact	goid plated
Coating contact Degree of protection (EN IEC 60529)	gold plated IP65, IP66K, IP67
Degree of protection (EN IEC 60529)	gold plated IP65, IP66K, IP67
Degree of protection (EN IEC 60529) Commercial data	IP65, IP66K, IP67
Degree of protection (EN IEC 60529) Commercial data URL Webshop	IP65, IP66K, IP67 https://shop.murrelektronik.com/7000-47051-8310150
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN	IP65, IP66K, IP67 https://shop.murrelektronik.com/7000-47051-8310150 4048879655606
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Additional condition 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 EN/IEC 61076-2-113 (M12) Installation Cable Zable identification 831 Function cable Hybrid, Data, Power Amount stranding 1 Stranding 4 wires around core filler star-shaped twisted Amount stranding (type 2) 1 Stranding (type 2) 4 wires stranded with stranding combination with 3 filler Zable shielding (coverage) 85 % Pair shielding (coverage) 85 % Pair shielding (coverage) 85 % Banding Foil, Fleece Filler Yes Wire arrangement (orange-white, green, orange, green-white), black, brown, white, blue Zable weigth 98 g/m Auterial wire insulation PP Auterial wire insulation 1,5 mm Duter diameter insulation ± 0,1 mm	Environmental characteristics Climatic	
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Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Vote on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Conformity Product standard EN/IEC 61076-2-113 (M12) Installation Cable Cable identification 831 Function cable Hybrid, Data, Power Amount stranding 1 At wires around core filler star-shaped twisted Amount stranding (type 2) 1 Stranding (type 2) 4 wires stranded with stranding combination with 3 filler Cable shielding (type) copper braid, tinned Cable shielding (type) copper braid, tinned Pair shielding (coverage) 85 % Banding Foil, Fleece Filler Yes Wire arrangement (orange-white, green, orange, green-white), black, brown, white, blue Cable weight 98 g/m Material wire insulation PP Amount wires 4 Duter diameter tolerance core insulation ± 0,1 mm	Additional condition temperature range	depending on cable quality
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Outer diameter insulation 1,5 mm Outer diameter tolerance core insulation ± 0,1 mm	Material wire insulation	PP
Outer diameter tolerance core insulation ± 0,1 mm	Amount wires	4
	Outer diameter insulation	1,5 mm
Shore hardness wire insulation 55 ± 5 Shore D	Outer diameter tolerance core insulation	± 0,1 mm
	Shore hardness wire insulation	55 ± 5 Shore D

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-12-20



Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	19
Diameter of single wires	38 AWG
Conductor crosssection (wire)	26 AWG
Material conductor wire	Stranded copper wire, bare
Electrical function wire	Data
	PP PP
Material wire insulation (type 2) Outer diameter wire insulation (type 2)	1,1 mm
Tolerance outer diameter wire insulation (type 2)	1,1 11111
2)	± 0,1 mm
Shore hardness wire insulation (type 2)	55 ± 5 Shore D
Ingredient freeness wire insulation (type 2)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount wires (type 2)	4
Amount strands wire (type 2)	19
Diameter of single wires (type 2)	38 mm
Conductor crosssection wire (type 2)	20 AWG
Material conductor wire (type 2)	Stranded copper wire, bare
Electrical function wire (type 2)	Power
Outer-diameter (jacket)	8,1 mm
Tolerance outer diameter (sheath)	±5%
Material jacket	PUR
Shore hardness jacket	90 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material property (jacket)	abrasion-resistant, low adhesion, good machinability, matte
Conductor resistance (wire)	35 Ω/km @ 20 °C
Conductor resistance (wire type 2)	140 Ω/km @ 20 °C
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	2,4 A
Current load capacity min. Wire (type 2)	2.4 A
Current carrying capacity min. wire (type 3)	7,2 A
Characteristic impedance	100 Ω ± 15 % @ 15 MHz
Operating temperature min. (static)	-40 °C
Operating temperature max. (static)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (drag chain)	-40 °C
Operating temperature max. (drag chain)	80 °C / 90 °C @ 10000 h Operation
Flame resistance	UL 1581 § 1090, UL 1581 § 1100, IEC 60332-1-2
Oil resistance	IEC 60811-404, NEMA WC55, IRM 901
Ozone resistance	EN 50396
UV resistance	UL 1581 § 1200
Other resistances	good resistance to saturated hydrocarbons (diesel, kerosene, petrol ether), resistant to hydrolysis, resistant to microbes, MUD-resistant (NEK 606)
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 °/m		
Torsion speed	35 cycles/min		