M12 male 0° Y-cod. with cable shielded

PUR AWG20/26 shielded bk UL/CSA+drag ch. 3m

Art.No.: 7000-15501-8050300
Weight: 0.320 kg
Country of origin: CZ
Model designation: MSYAL0-08D805_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

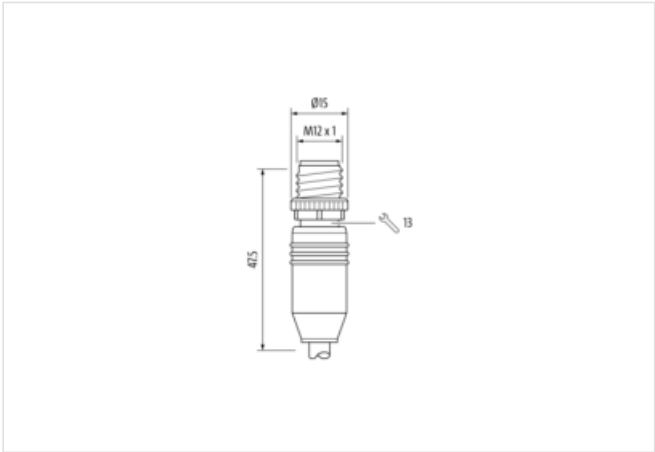
If you are missing technical information? Please feel free to use our dictionary to find more technical details.

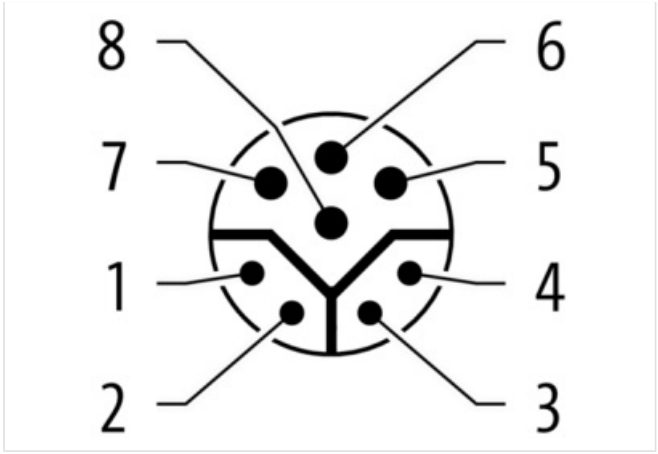
Product details:

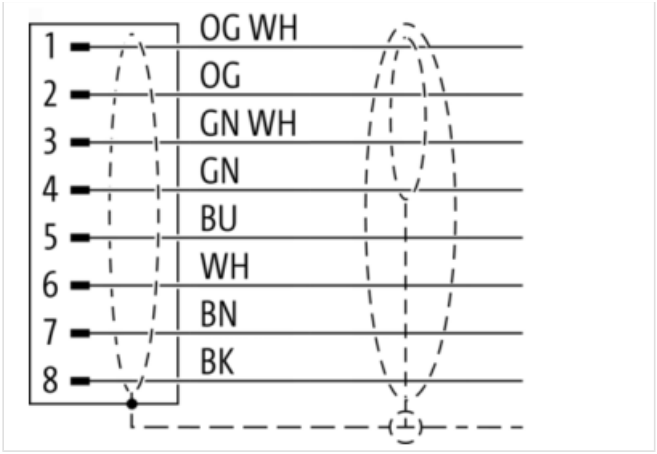
Ethernet CAT5
Male straight
M12, 8-pole
Y-coded
Shielded
Further cable lengths on request.
Plastic housings with good resistance against chemicals and oils.
The resistance to aggressive media should be individually tested for your application. Further details on request.

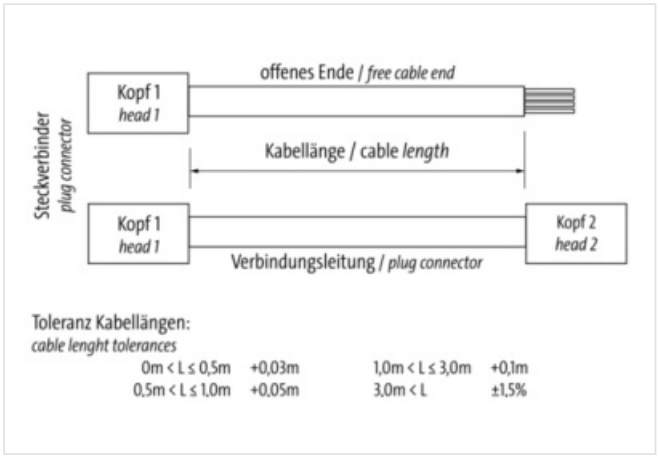
Link to Product

Illustration









Product may differ from Image

Cable length	3,00 m
Side 1	
Family construction form	M12
No. of poles	8
Coding	Y
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	free cable end
Stripping length (jacket)	80 mm

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Commercial data	
URL Webshop	https://shop.murrelektronik.com/7000-15501-8050300
Customs tariff number	85444290
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EAN	4048879519311
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	
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	EN/IEC 61076-2-113 (M12)
Installation | Cable	
Cable identification	805
Function cable	Hybrid, Data, Power
Cable weigth	98 g/m
UL AWM Style	20549 / 10493
Stranding	1 × 4 wires around core filler star-shaped twisted
Stranding (type 2)	1 × 4 wires stranded with stranding combination with 3 filler
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Pair shielding (type)	copper braid, tinned
Pair shielding (coverage)	85 %
Banding	Foil, Fleece
Filler	Yes
Wire arrangement	(OGWH, GN, OG, GNWH), BK, BN, WH, BU

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Shield	shielded
Electrical function wire	Data
Material wire insulation	PP
Amount wires	4
Outer diameter insulation	1.5 mm ± 0.1 mm
Conductor crosssection (wire)	26 AWG
Material conductor wire	Stranded copper wire, bare
Core construction (wire)	19
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Electrical function wire (type 2)	Power
Material wire insulation (type 2)	PP
Amount wires (type 2)	4
Outer diameter wire insulation (type 2)	1.1 mm ± 0.1 mm
Conductor crosssection (wire type 2)	20 AWG
Material conductor wire (type 2)	Stranded copper wire, bare
Core construction (wire type 2)	19
Ingredient freeness wire insulation (type 2)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material jacket	PUR
Outer-diameter (jacket)	8.1 mm ± 5 %
Jacket Color	black / RAL 9005
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material property (jacket)	abrasion-resistant, low adhesion, good machinability, matte
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Pair shielding (type)	copper braid, tinned
Pair shielding (coverage)	85 %
Conductor resistance (wire)	140 Ω/km @ 20 °C
Conductor resistance (wire type 2)	35 Ω/km @ 20 °C
Nominal voltage max.	300 V
Withstand voltage (wire - wire)	2 kV @ 60 s
Withstand voltage (wire - jacket)	2 kV @ 60 s
Withstand voltage (wire - shield)	2 kV @ 60 s
Current load capacity max. (wire)	2,4 A
Current load capacity max. Wire (type 2)	7,2 A
Current load capacity (standard)	to DIN VDE 0298-4
Electrical capacity line constant (wire - wire)	52.000 pF/km
Isolation resistance	5 GΩ × km
Characteristic impedance	100 Ω ± 15 % @ 1 MHz
Cable type	Industrial Ethernet Hybrid
Operating temperature (static)	-40 °C … 80 °C
Operating temperature (dynamic)	-30 °C … 70 °C / 90 °C @ 10000 h
Operating temperature (drag chain)	-30 °C … 70 °C
Flame resistance	IEC 60332-1-2, UL 1581 § 1060, UL 1581 § 1090, UL 1581 § 1100
Oil resistance	IEC 60811-404, IRM 901
Ozone resistance	EN 50396
UV resistance	UL 1581 § 1200 @ 300 h
Other resistances	good resistance to saturated hydrocarbons (diesel, kerosene, petrol ether), resistant to hydrolysis, resistant to microbes, MUD-resistant (NEK 606)
Notes	application-related testing
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter
No. of bending cycles (C-track)	2 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C | horizontal
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