

M12 male 0° A-cod. with cable

PUR AWG24+22 shielded vt UL/CSA+drag ch. 1.5m

Art.No.: 7000-13105-8030150

Weight: 0.113 Country of origin: CZ

Model designation: MSAL0-U803_1.5

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:DeviceNet, CANopen

Male straight

M12, 5-pole

Product fulfills requirements according to UN/ECE R118

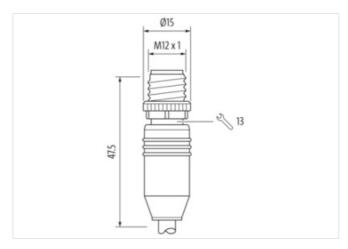
Plastic housings with good resistance against chemicals and oils.

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

Link to Product

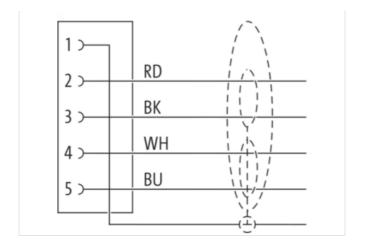
Illustration

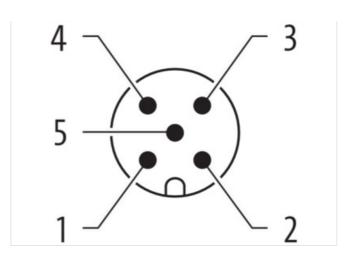


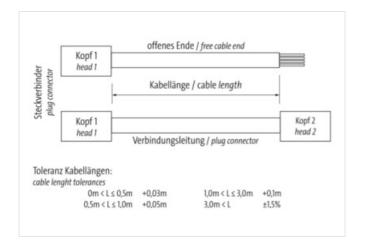




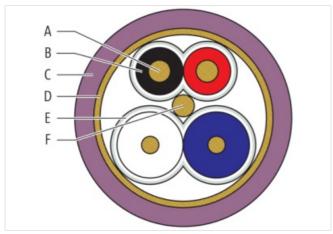
stay connected











Product may differ from Image





















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ETIM-8.0 EC001855 customs tariff number 85444290 EAN 4048879200905 Packaging unit 1 Electrical data Supply Operating voltage AC max. 60 V Operating voltage DC max. 60 V Current operating per contact max. 4 A Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V	ETIM-6.0	EC001855
EAN 4048879200905 Packaging unit 1 Electrical data Supply Operating voltage AC max. 60 V Operating voltage DC max. 60 V Current operating per contact max. 4 A Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V	ETIM-7.0	EC001855
EAN 4048879200905 Packaging unit 1 Electrical data Supply Operating voltage AC max. 60 V Operating voltage DC max. 60 V Current operating per contact max. 4 A Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V	ETIM-8.0	EC001855
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Operating voltage DC max. 60 V Current operating per contact max. 4 A Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V	Electrical data Supply	
Operating voltage DC max. 60 V Current operating per contact max. 4 A Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V	Operating voltage AC max.	60 V
Current operating per contact max. 4 A Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V	Operating voltage DC max.	
Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V	Current operating per contact max.	4 A
Operating voltage DC (UL-listed) 30 V	Operating voltage AC (UL-listed)	
	Operating voltage DC (UL-listed)	

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: 2025-11-09



Mounting set M12 x 1

Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1.5 kV
Material group (IEC 60664-1)	I
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	THE COLUMN TO TH
·	
Material screw connection	Zinc die-casting
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Coating locking	Nickeled
Mechanical data Mounting data	
Mounting method	inserted, screwed, Shaking protection
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.
	r rotest the confidencials by sultable measures from metrialfical loads, e.g. by the usage of Cable fles.
Conformity	
Product standard	EN IEC 61076-2-101 (M12)
Installation Cable	
Cable identification	803
Function cable	Hybrid, Data, Power
Amount stranding	2
Stranding	2 wires stranded
Amount stranding (type 2)	1
Stranding (type 2)	2 stranding combinations stranded
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	65 %
Banding	Foil
Drain wire (cross-section)	22 AWG
Wire arrangement	(white, blue), (Black, red)
Cable weigth	57.38 g/m
Material wire insulation	PE
Amount wires	2
Outer diameter insulation	2.1 mm
Outer diameter tolerance core insulation	± 0.05 mm
Shore hardness wire insulation	65 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Amount strands (wire)	19
Diameter of single wires	36 AWG
Conductor crosssection (wire)	24 AWG
Drain wire (cross-section)	22 AWG
Material conductor wire	copper stranded wire, tinned



stay connected

Material wire insulation (type 2)	PE
Outer diameter wire insulation (type 2)	2.1 mm
Tolerance outer diameter wire insulation (type 2)	± 0.05 mm
Shore hardness wire insulation (type 2)	65 ± 5 Shore D
Ingredient freeness wire insulation (type 2)	lead-free, CFC-free, halogen-free
Amount wires (type 2)	2
Amount strands wire (type 2)	19
Diameter of single wires (type 2)	36 mm
Conductor crosssection wire (type 2)	22 AWG
Material conductor wire (type 2)	copper stranded wire, tinned
Electrical function wire (type 2)	Power
Outer diameter wire insulation (type 3)	1.5 mm
Tolerance outer diameter wire insulation (type 3)	± 0.05 mm
Shore hardness wire insulation (type 3)	65 ± 5 Shore D
Amount wires (type 3)	2
Amount strands wire (type 3)	19
Diameter of single wires (type 3)	22 mm
Outer-diameter (jacket)	6.9 mm
Tolerance outer diameter (sheath)	±5%
Material jacket	PUR
Shore hardness jacket	89 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Conductor resistance (wire)	78 Ω/km @ 20 °C
Conductor resistance (wire type 2)	78 Ω/km @ 20 °C
Conductor resistance (wire type 3)	54 Ω/km @ 20 °C
Electric capacitance	40,000 pF/km
Isolation resistance	5,000 MΩ × km
Nominal voltage AC max.	300 V
Withstand voltage (wire - wire)	2 kV @ 60 s
Withstand voltage (wire - shield)	2 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity (standard) Current load capacity min. wire	3 A
Current load capacity min. Wire (type 2)	3 A
	6 A
Current carrying capacity min. wire (type 3) Characteristic impedance	120 Ω ± 10 % @ 10 MHz
Min. operating temperature (static)	-40 °C
Max. operating temperature (static)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	UL 1581 § 1090, UL 1581 § 1100, IEC 60332-1-2
Oil resistance Ozone resistance	IEC 60811-404, IRM 901, NEMA WC55 IEC 60811-403, EN 50396
UV resistance	
	UL 1581 § 1200
Other resistances	MUD-resistant (NEK 606), resistant to microbes
Bending radius (fixed)	6 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter
No. of bending cycles (C-track)	1 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3 m/s @ 25 °C
Acceleration (C-track)	5 m/s² @ 25 °C