M12 male 0° / M12 female 0° A-cod.

PUR AWG24+22 shielded vt UL/CSA+drag ch. 2m

Art.No.: 7000-40531-8030200
Weight: 0.157 kg
Country of origin: CZ
Model designation: MSBL0-A-U803_2.0

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

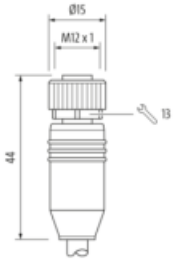
If you are missing technical information? Please feel free to use our dictionary to find more technical details.

Product details:

DeviceNet, CANopen
Male straight - female straight
M12 - M12, 5-pole
A-coded
Shielded
With cable grommet
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



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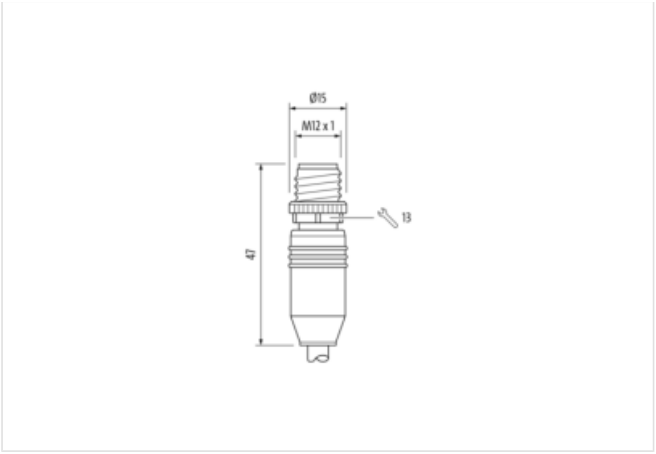

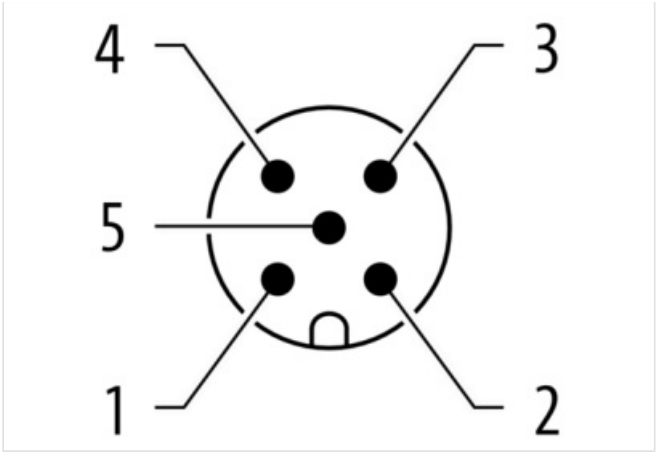

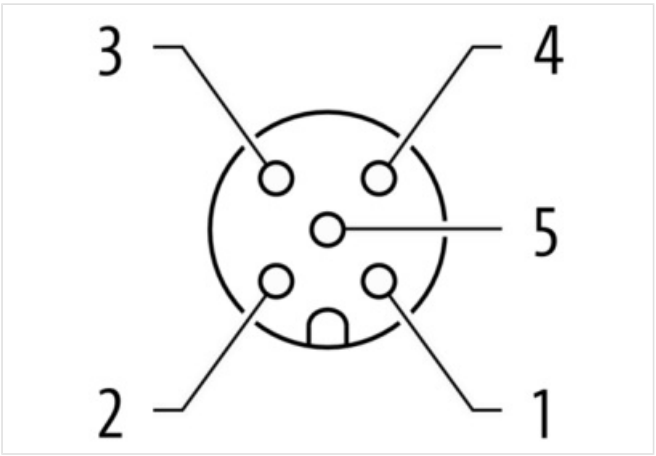

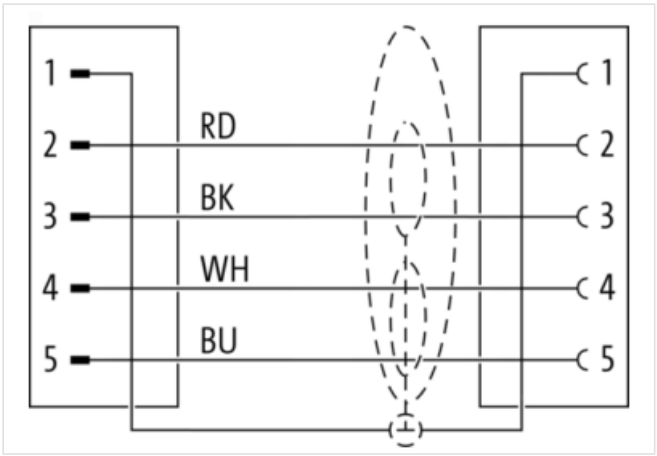

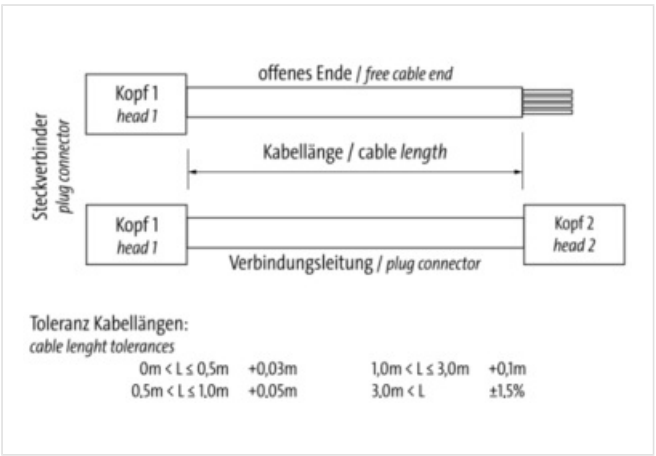

Product may differ from Image

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Cable length	2,00 m
Side 1-1	
Family construction form	M12
No. of poles	5
Coding	A
Gender	Male
Mounting method	Inserted, Screwed
Thread	M12x1
Tightening torque	0.6 Nm
Width across flats	SW 13
Cable outlet	straight
Material	PUR
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65
Side 2-2	
Family construction form	M12
No. of poles	5
Coding	A
Gender	Female
Mounting method	Inserted, Screwed
Thread	M12x1
Tightening torque	0.6 Nm
Width across flats	SW 13
Cable outlet	straight
Material	PUR
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65
Commercial data	
URL webshop	https://shop.murrelektronik.com/7000-40531-8030200
GTIN	4048879164986
EU-Customs tariff number	85444290
US-Customs tariff number	8544429090
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	EC001855
ETIM-6.0	EC001855
ETIM-7.0	EC001855
ETIM-8.0	EC001855
ETIM-9.0	EC001855
ETIM-10.0	EC001855
customs tariff number	85444290
EAN	4048879164986

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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
Diagnostics	
Status indication LED	No
Installation | Connection	
Mounting thread	M12x1
Device protection | Electrical	
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65
Additional condition degree of protection	Inserted, Screwed
Pollution degree	3
Rated surge voltage	1.5 kV
Insulating 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
Locking material	Zinc die-casting
Coating locking	Matt nickel-plated
Gasket	FKM
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 connected cable
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 61076-2-101 (M12)
Installation | Cable-1	
Cable identification	803
Function cable	Hybrid, Data, Power
Cable weigth	57.38 g/m
Stranding	2 × 2 Wires stranded
Stranding (type 2)	1 × 2 Stranding combinations stranded around hatchet strand
Cable shielding (type)	Copper braid, tinned
Cable shielding (coverage)	65 %
Pair shielding (type)	Metal foil
Drain wire (cross-section)	22 AWG
Wire arrangement	(WH, BU), (BK, RD)
Shielding	Shielded
Cable type	CAN DeviceNet

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Electrical function wire	Data
Material wire insulation	Cell polyethylene
Amount wires	2
Outer diameter wire insulation	2.1 mm ± 0.05 mm
Conductor crosssection (wire)	24 AWG
Material conductor wire	Copper stranded wire, tinned
Core construction (wire)	19 x 36 AWG
Ingredient freeness wire insulation	Lead-free, CFC-free, Halogen-free
Electrical function wire (type 2)	Power
Material wire insulation (type 2)	PE
Amount wires (type 2)	2
Outer diameter wire insulation (type 2)	1.5 mm ± 0.05 mm
Conductor crosssection (wire type 2)	22 AWG
Material conductor wire (type 2)	Copper stranded wire, tinned
Core construction (wire type 2)	19 x 34 AWG
Ingredient freeness wire insulation (type 2)	Lead-free, CFC-free, Halogen-free
Material jacket	PUR
Outer-diameter (jacket)	6.9 mm ± 5 %
Jacket color	violet / RAL 4001
Freedom from ingredients (jacket)	Lead-free, CFC-free, Halogen-free
Cable shielding (type)	Copper braid, tinned
Cable shielding (coverage)	65 %
Pair shielding (type)	Metal foil
Conductor resistance (wire)	94.2 Ω/km @ 20 °C
Conductor resistance (wire type 2)	59.4 Ω/km @ 20 °C
Current load capacity (standard)	To DIN VDE 0298-4
Current load capacity max. (wire)	3 A
Current load capacity max. Wire (type 2)	6 A
Nominal voltage max.	300 V
Withstand voltage (wire - wire)	2 kV @ 60 s
Withstand voltage (wire - shield)	2 kV @ 60 s
Electric capacitance	40 pF/m
Insulation resistance	5 GΩ × km
Characteristic impedance	120 Ω ± 10 % @ 10 MHz
Operating temperature (static)	-40 °C … 80 °C
Operating temperature (dynamic)	-30 °C … 70 °C
Flame resistance	IEC 60332-1-2, UL 1581 § 1060 (FT1), UL 1581 § 1090, UL 1581 § 1100 (FT2)
Oil resistance	IEC 60811-404, IRM 902
Ozone resistance	IEC 60811-403, EN 50396
UV resistance	UL 1581 § 1200 @ 300 h
Other resistances	Good resistance to saturated hydrocarbons (diesel, kerosene, petrol ether), Microbe-resistant, MUD-resistant (NEK 606)
Notes	Application-related testing
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

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