

M12 male 0° / M12 male 0° DeviceNet

PUR AWG24+AWG22 shielded vt UL/CSA+drag ch. 0.6m

Art.No.: 7000-40532-8030060

Weight: 0.067 kg

Country of origin: CZ

Model designation: MSAL0-A-U803_0.6

CANopen/DeviceNet

Male straight – male straight

M12 – M12, 5-pole

A-coded

Shielded cables

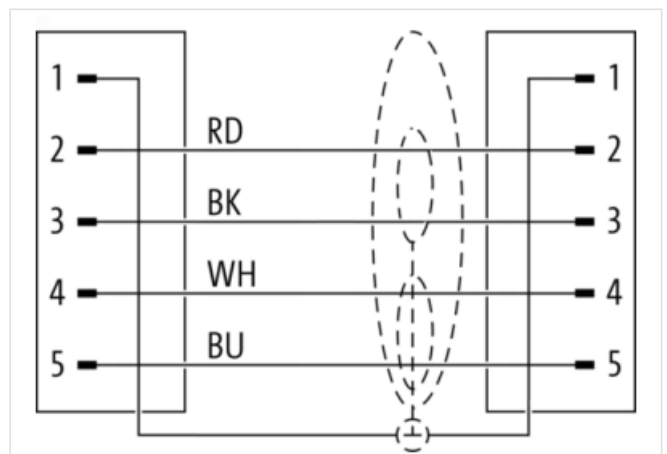
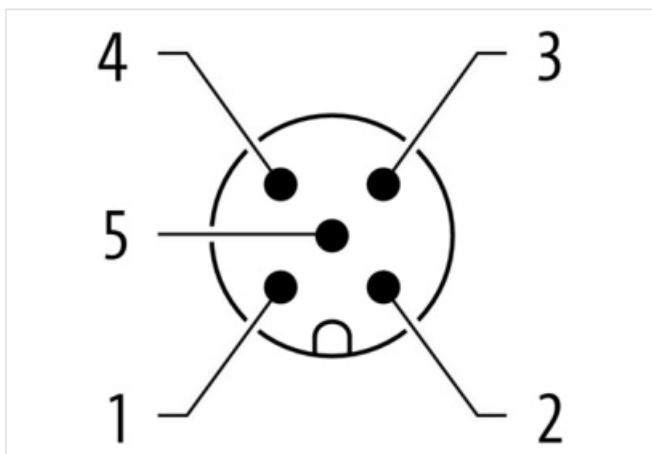
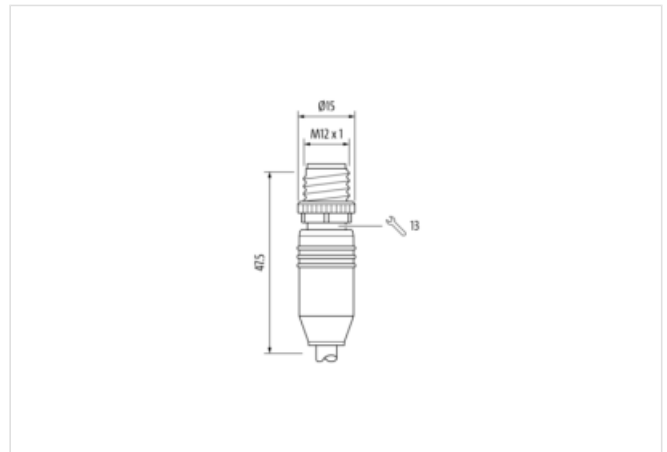
with cable sleeves

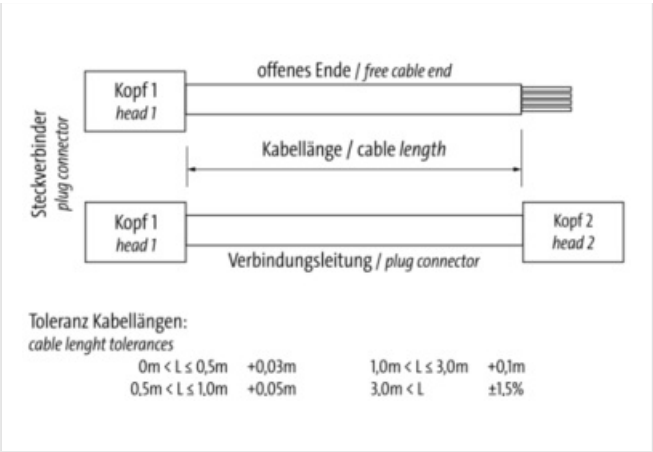
Further cable lengths on request.

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.

Link to Product**Illustration**



Product may differ from Image



Cable length	0,60 m
Side 1	
Family construction form	M12
No. of poles	5
Coding	A
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)	IP67, IP65
Side 2	
Family construction form	M12
No. of poles	5
Coding	A
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)	IP67, IP65
Commercial data	
URL Webshop	https://shop.murrelektronik.com/7000-40532-8030060
GTIN	4048879901918

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
customs tariff number	85444290
EAN	4048879901918
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

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

Screw connection	Zinc die-casting
Coating of fitting	Nickeled

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 61076-2-101 (M12)
------------------	--------------------------

Installation | Cable

Stranding	2 × 2 wires stranded
Stranding (type 2)	1 × 2 stranding combinations stranded

Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	65 %
Pair shielding (type)	Metal foil
Banding	Foil
Drain wire (cross-section)	22 AWG
Wire arrangement	(WH, BU), (BK, RD)
Shield	shielded
Electrical function wire	Data
Material wire insulation	PE
Amount wires	2
Outer diameter insulation	2.1 mm ± 0.05 mm
Conductor crossection (wire)	24 AWG
Material conductor wire	copper stranded wire, tinned
Core construction (wire)	19
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 crossection (wire type 2)	22 AWG
Material conductor wire (type 2)	copper stranded wire, tinned
Core construction (wire type 2)	19
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
Nominal voltage max.	300 V
Withstand voltage (wire - wire)	2 kV @ 60 s
Withstand voltage (wire - shield)	2 kV @ 60 s
Current load capacity max. (wire)	3 A
Current load capacity max. Wire (type 2)	6 A
Current load capacity (standard)	to DIN VDE 0298-4
Electric capacitance	40.000 pF/km
Isolation resistance	5 GΩ × km
Characteristic impedance	120 Ω ± 10 % @ 10 MHz
Cable type	CAN DeviceNet
Operating temperature (static)	-40 °C ... 80 °C
Operating temperature (dynamic)	-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 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), resistant to microbes, 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/s ² @ 25 °C