M12 male 0° / M12 male 0° DeviceNet

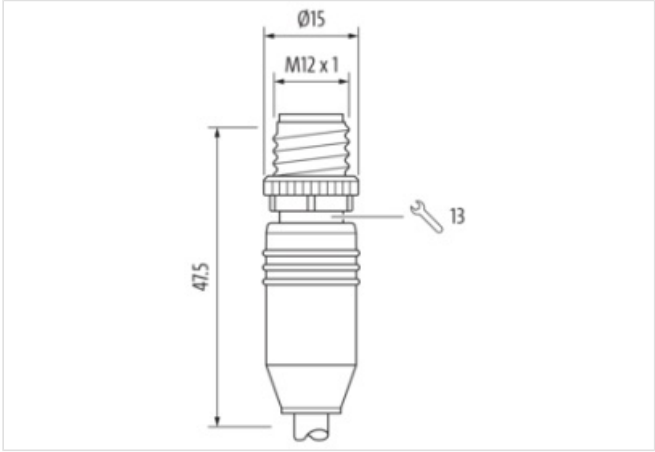
PUR AWG24+AWG22 shielded vt UL/CSA+drag ch. 0.6m

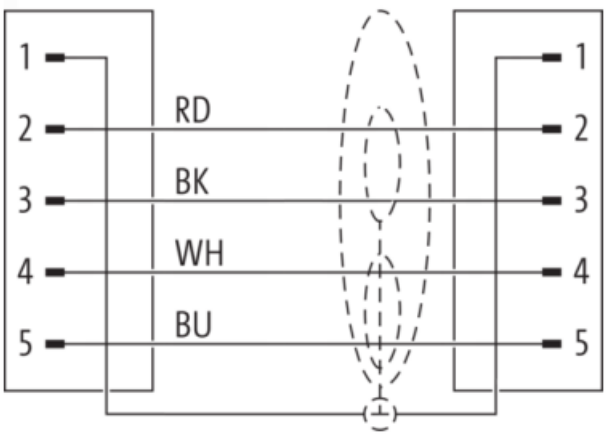
Art.No.: 7000-40532-8030060
Weight: 0.067
Country of origin: CZ
Model designation: MSAL0-A-U803_0.6

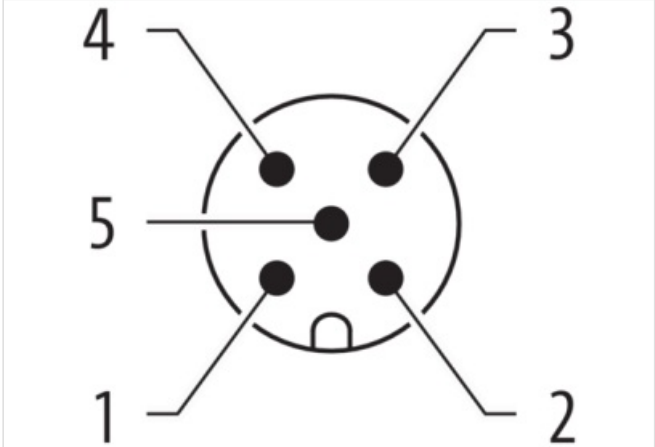
CANopen/DeviceNet
Male straight – male straight
M12 – M12, 5-pole
A-coded
Shielded cables
with cable sleeves
Further cable lengths on request.
Product fulfills requirements according to UN/ECE R118
Plastic housings with good resistance against chemicals and oils.
The resistance to aggressive media should be individually tested for your application. Further details on request.

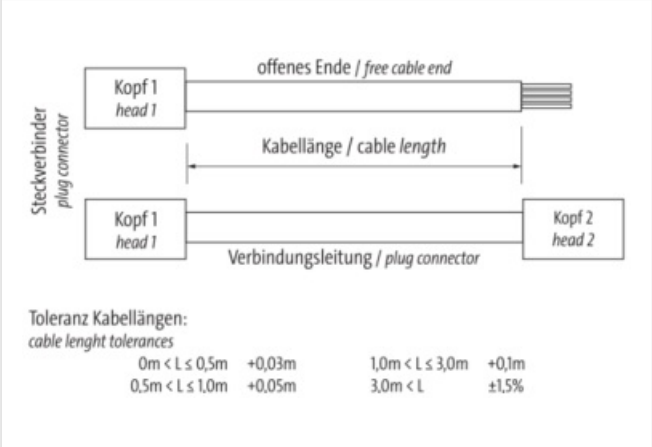
Link to Product

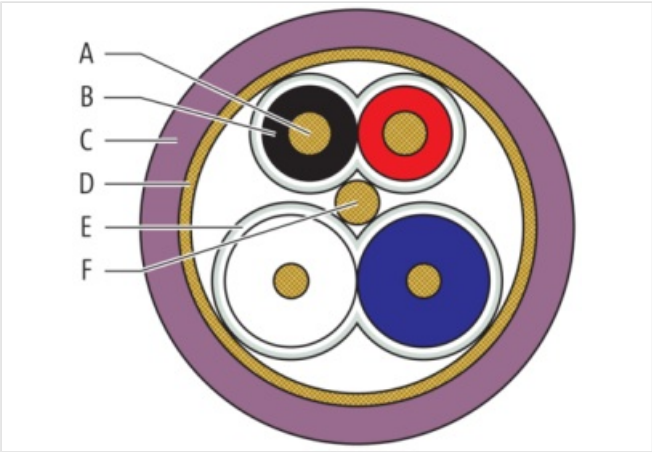
Illustration











Product may differ from Image

Header	
Material short text	MSAL0-A-U803_0.6
Cable length	0,60 m
Side 1	
Family construction form	M12
No. of poles	5
Coding	A
Gender	male
Mounting method	inserted, screwed
Thread	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	

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stay connected

Family construction form	M12
No. of poles	5
Coding	A
Gender	male
Mounting method	inserted, screwed
Thread	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
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	
Material screw connection	Zinc die-casting
Coating of fitting	Nickeled

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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	
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
Electrical function wire	Data
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

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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 min. wire	3 A
Current load capacity min. Wire (type 2)	3 A
Current carrying capacity min. wire (type 3)	6 A
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	IEC 60811-404, IRM 901, NEMA WC55
Ozone resistance	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