

M12 female recept. A-cod. rear

PUR AWG24+22 shielded vt UL/CSA+drag ch. 1m

Art.No.: 7000-13571-8030100

Weight: 0.052

Country of origin: DE

Model designation: MSBFH-U803_1.0

DeviceNet, CANopen

Flange female

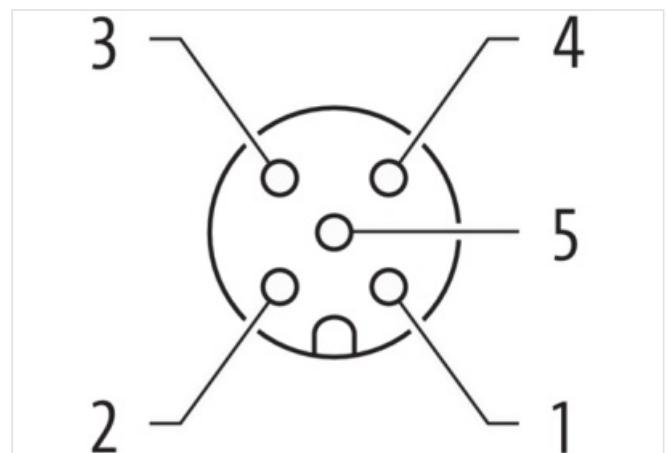
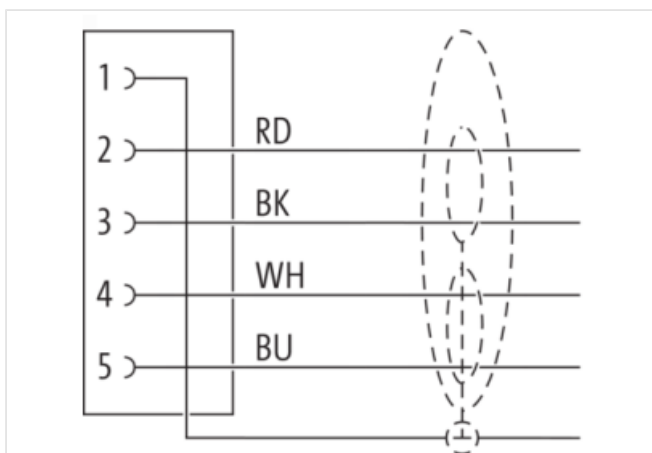
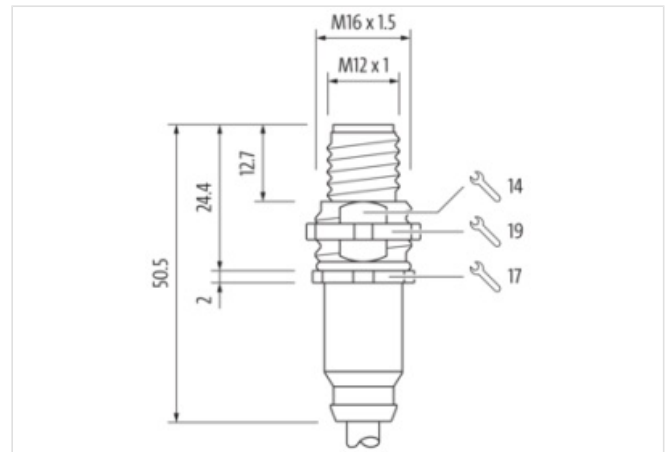
M12, 5-pole

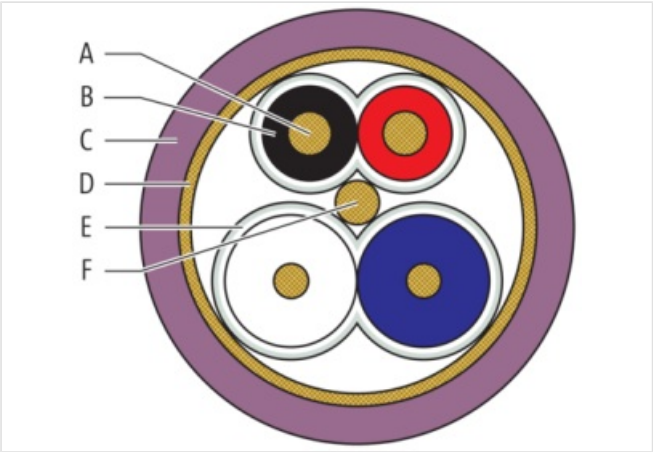
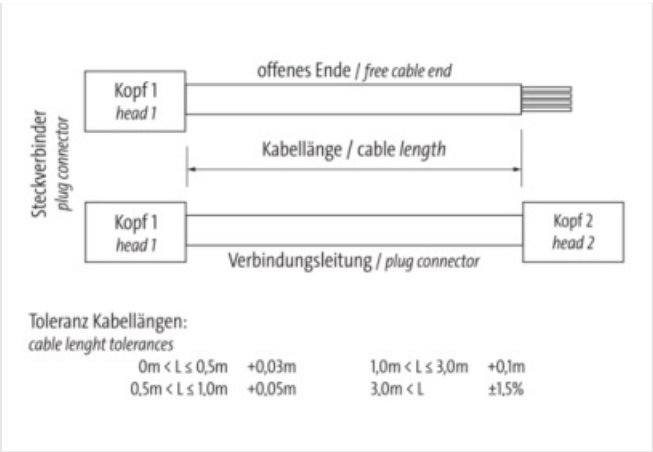
Rear mounting

without cable sleeves

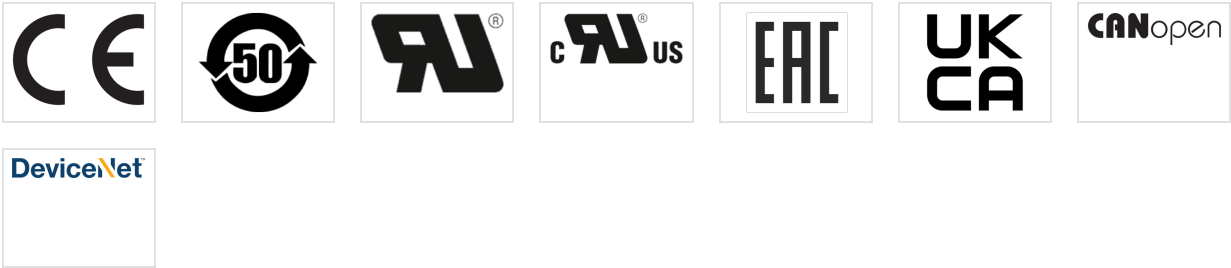
Further cable lengths on request.

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



Side 1	
Family construction form	M12
No. of poles	5
Coding	A
Mounting method	inserted, screwed
Thread	M12 x 1
Tightening torque	0.6 Nm
Width across flats	SW13
suitable for corrugated tube (internal Ø)	10 mm
Material	Brass
Degree of protection (EN IEC 60529)	IP67
Side 2	
Stripping length (jacket)	20 mm
Commercial data	

URL Webshop <https://shop.murrelektronik.com/7000-13571-8030100>

customs tariff number	85444290
EAN	4048879732024
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

Installation | Connection

Mounting set	M16 x 1.5
Width across flats	SW19

Device protection | Electrical

Protection NEMA	6P, 4, 3
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1.5 kV
Material group (IEC 60664-1)	I

Mechanical data | Material data

Coating housing	nickel plated
Material screw connection	Brass
Coating of fitting	nickel plated
Locking material	Brass
Coating locking	nickel plated

Mechanical data | Mounting data

Mounting method	Schraubgewinde
Looking techniques	Schraubgewinde

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)
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Approvals

UL 50E	yes
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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 weight	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
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, IIR 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/s ² @ 25 °C