

M12 female recept. B-cod. rear

PUR 1x2xAWG24 shielded vt UL/CSA+drag ch. 5m

Art.No.: 7000-14171-8410500

Weight: 0.381

Country of origin: DE

Model designation: MSBBFH-F841_5.0

Flange female

M12, 2-pole

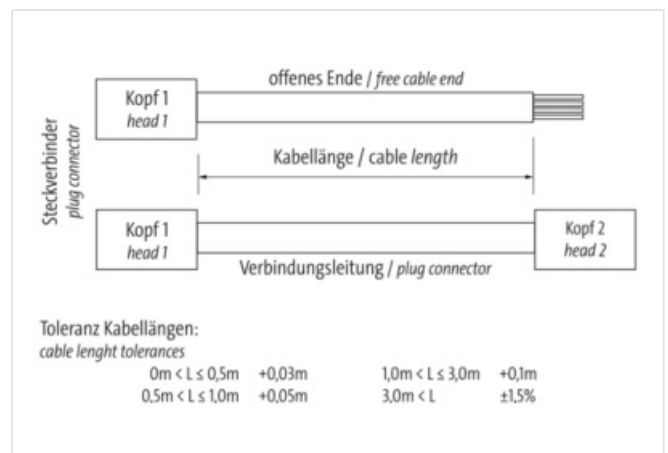
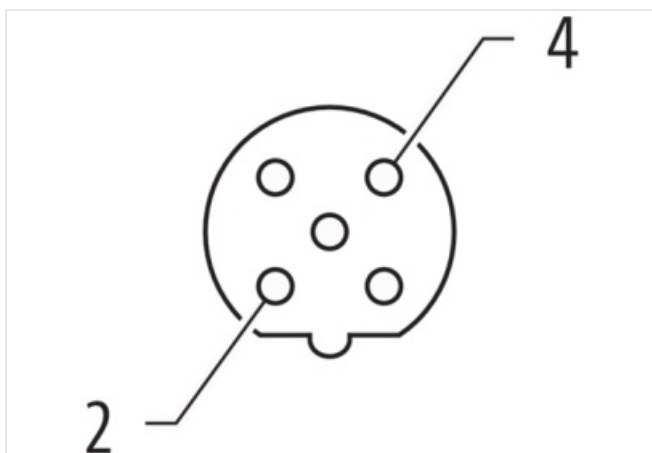
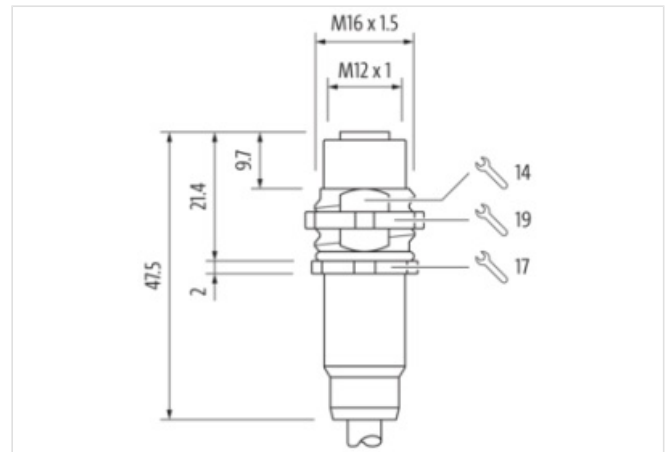
B-coded

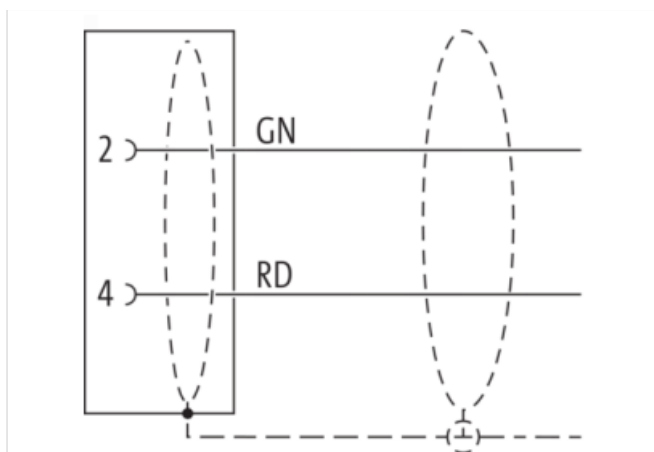
shielded

Rear mounting

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

**Header**

Cable length 5.0 m

Side 1

Family construction form	M12
No. of poles	2
Coding	B
Mounting method	inserted, screwed
Thread	M12 x 1
Tightening torque	0.6 Nm
Width across flats	SW17
Material	Brass
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP67

Side 2

Family construction form	free cable end
Stripping length (jacket)	20 mm

Commercial data

URL Webshop	https://shop.murrelektronik.com/7000-14171-8410500
customs tariff number	85444290
EAN	4048879514088
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

Diagnostics

Status indication LED	no
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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

Contour for corrugated hose	without
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Mechanical data | Material data

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

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.

Approvals

UL 50E	yes
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Installation | Cable

Cable identification	841
Amount stranding	1
Stranding	Wires
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding	Fleece, Foil
Filler	yes
Wire arrangement	green, red
Cable weight	70.4 g/m
Material wire insulation	cell polyethylene
Amount wires	2
Outer diameter insulation	2.55 mm
Outer diameter tolerance core insulation	± 0.1 mm
Shore hardness wire insulation	60
Ingredient freeness wire insulation	CFC-free, cadmium-free, halogen-free, lead-free
Amount strands (wire)	19
Diameter of single wires	36 AWG
Conductor crosssection (wire)	24 AWG
Material conductor wire	Stranded copper wire, bare
Outer-diameter (jacket)	7.7 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	PUR
Shore hardness jacket	87
Freedom from ingredients (jacket)	CFC-free, cadmium-free, silicone-free, halogen-free, lead-free
Material property (jacket)	matte, good machinability, abrasion-resistant, low adhesion

Conductor resistance (wire)	72.2 Ω /km @ 20 °C
Electric capacitance	29,000 pF/km
Isolation resistance	5,000 M Ω × km
Nominal voltage AC max.	300 V
Loop resistance	145 Ω /km
Withstand voltage (wire - wire)	2 kV @ 60 s
Withstand voltage (wire - jacket)	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
Characteristic impedance	150 Ω 10 MHz
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-20 °C
Operating temperature max. (dynamic)	70 °C
Operating temperature min. (drag chain)	-20 °C
Operating temperature max. (drag chain)	60 °C
Bending radius (fixed)	7.5 × Outer diameter
Bending radius (dynamic)	12 × Outer diameter
No. of bending cycles (C-track)	5 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C horizontal
Travel speed (C-track)	3 m/s @ 25 °C
Acceleration (C-track)	5 m/s ² @ 25 °C