

**M12 female recept. B-cod. rear**

PUR 1x2xAWG24 shielded vt UL/CSA+drag ch. 3m

Art.No.: 7000-14171-8410300

Weight: 0.24

Country of origin: DE

Model designation: MSBBFH-F841\_3.0

Flange female

M12, 2-pole

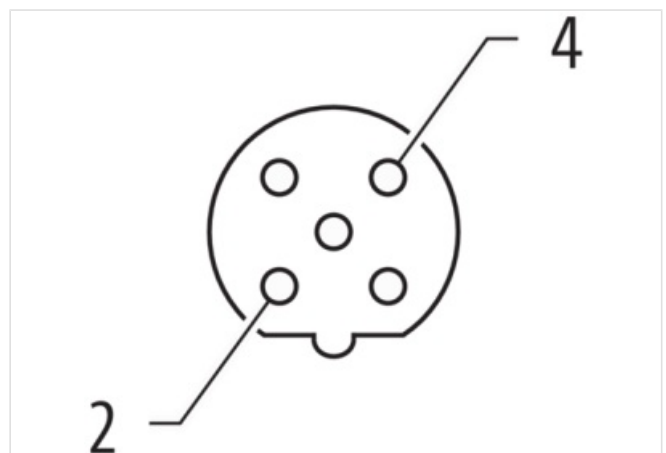
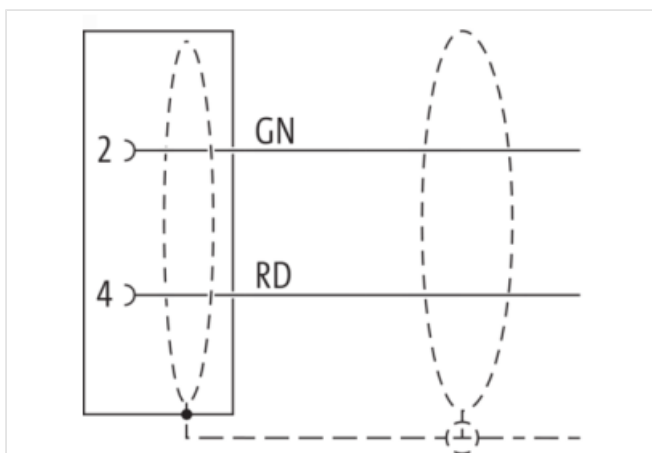
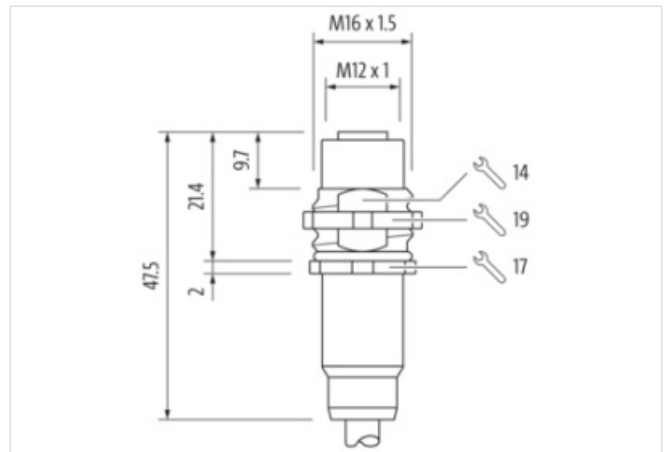
B-coded

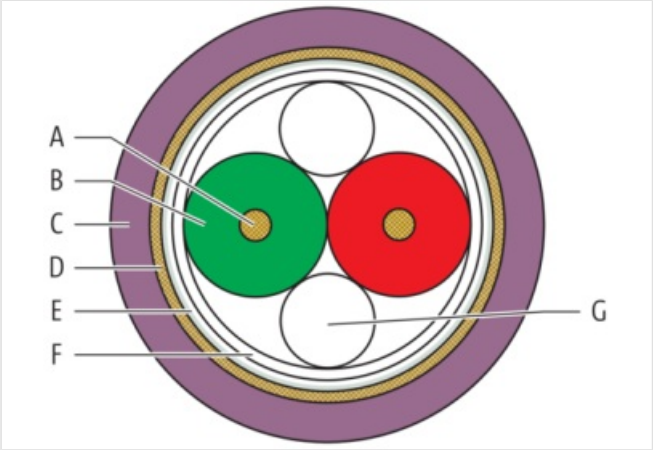
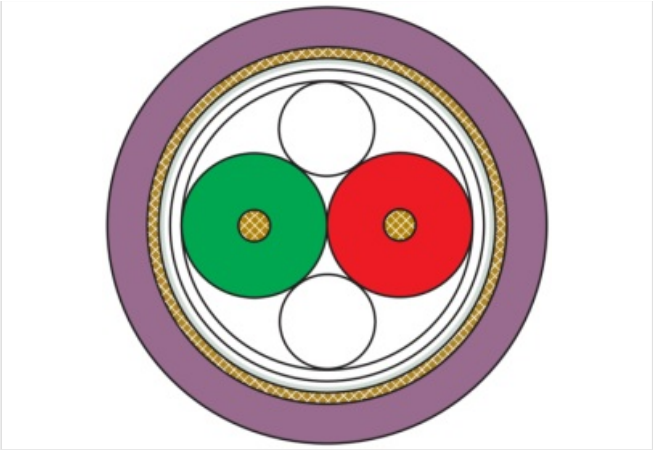
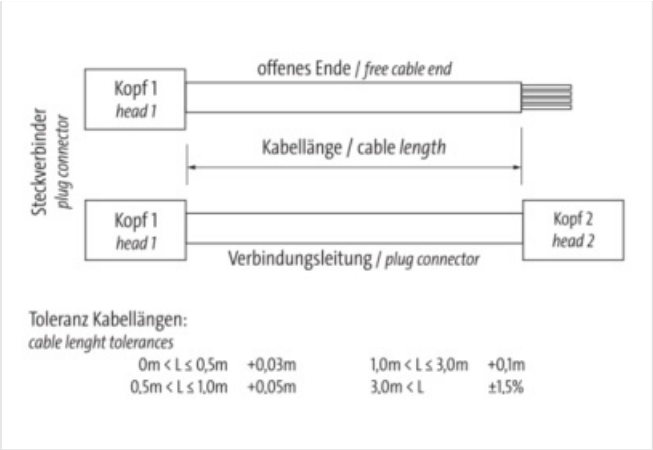
shielded

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                        | 3,00 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                                     | <a href="https://shop.murrelektronik.com/7000-14171-8410300">https://shop.murrelektronik.com/7000-14171-8410300</a>                                   |
| customs tariff number                           | 85444290                                                                                                                                              |
| EAN                                             | 4048879514071                                                                                                                                         |
| Packaging unit                                  | 1                                                                                                                                                     |
| <b>Electrical data   Supply</b>                 |                                                                                                                                                       |
| Operating voltage AC max.                       | 60 V                                                                                                                                                  |
| Operating voltage DC max.                       | 60 V                                                                                                                                                  |
| Current operating per contact max.              | 4 A                                                                                                                                                   |
| <b>Diagnostics</b>                              |                                                                                                                                                       |
| Status indication LED                           | no                                                                                                                                                    |
| <b>Installation   Connection</b>                |                                                                                                                                                       |
| Mounting set                                    | M16 x 1.5                                                                                                                                             |
| Width across flats                              | SW19                                                                                                                                                  |
| <b>Device protection   Electrical</b>           |                                                                                                                                                       |
| 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                                                                                                                                                     |
| <b>Mechanical data</b>                          |                                                                                                                                                       |
| Contour for corrugated hose                     | without                                                                                                                                               |
| <b>Mechanical data   Material data</b>          |                                                                                                                                                       |
| Material screw connection                       | Brass                                                                                                                                                 |
| Coating of fitting                              | nickel plated                                                                                                                                         |
| Locking material                                | Brass                                                                                                                                                 |
| Coating locking                                 | nickel plated                                                                                                                                         |
| Material gasket                                 | FKM                                                                                                                                                   |
| <b>Mechanical data   Mounting data</b>          |                                                                                                                                                       |
| Mounting method                                 | Schraubgewinde                                                                                                                                        |
| Looking techniques                              | Schraubgewinde                                                                                                                                        |
| <b>Environmental characteristics   Climatic</b> |                                                                                                                                                       |
| Operating temperature min.                      | -30 °C                                                                                                                                                |
| Operating temperature max.                      | 85 °C                                                                                                                                                 |
| Additional condition temperature range          | depending on cable quality                                                                                                                            |
| <b>Important installation notes</b>             |                                                                                                                                                       |
| Note on bending radius                          | <b>Attention:</b> 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.                                                   |
| <b>Approvals</b>                                |                                                                                                                                                       |
| UL 50E                                          | yes                                                                                                                                                   |
| <b>Installation   Cable</b>                     |                                                                                                                                                       |
| 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 weighth                                   | 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 MΩ × 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/s² @ 25 °C                                                 |