

M12 male recept. A-cod. shielded rear mount

PUR 12x0.14 shielded bk UL/CSA+drag ch. 3m

Art.No.: 7000-19171-7060300

Weight: 0.232

Country of origin: DE

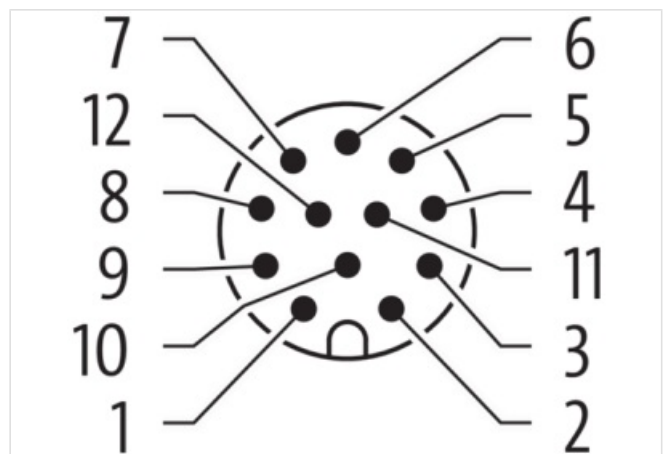
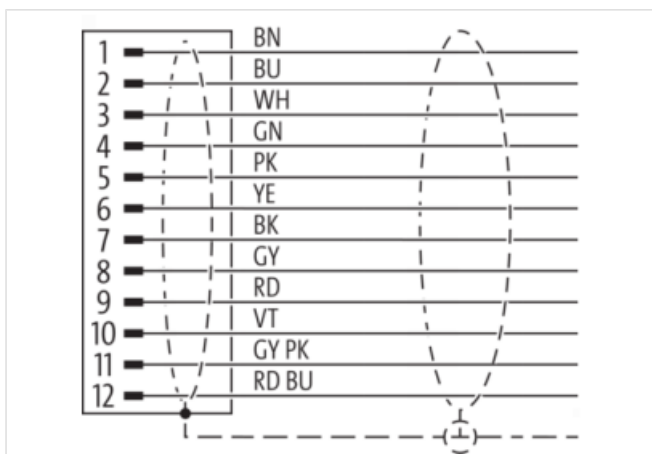
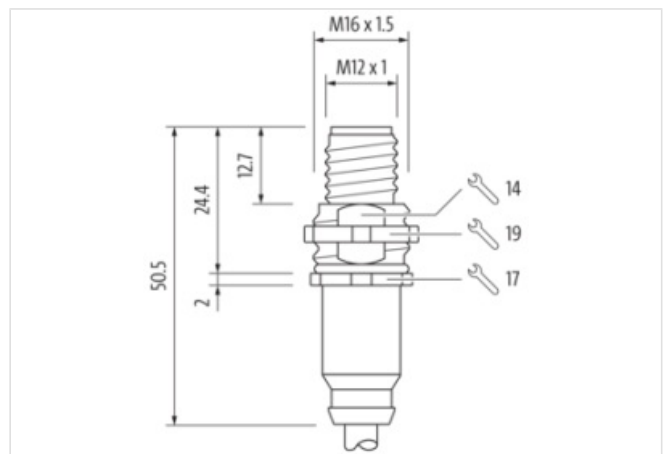
Model designation: MSAFH-12E706_3.0-ZE

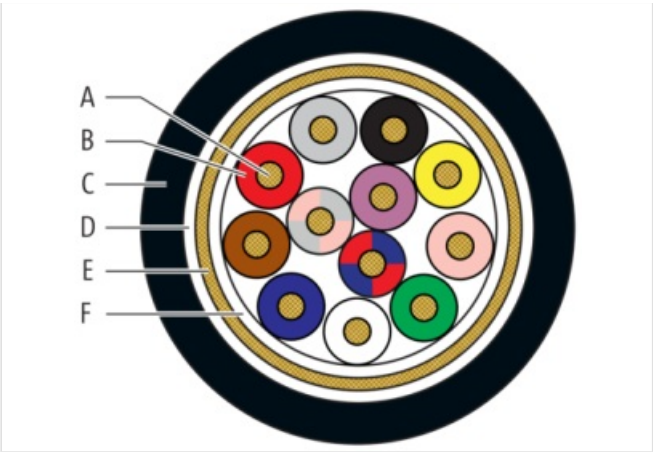
Flange male

M12, 12-pole

shielded

Front mounting

[Link to Product](#)**Illustration**



Product may differ from Image



| Header | |
|-------------------------------------|---|
| Cable length | 3,00 m |
| Side 1 | |
| Family construction form | M12 |
| No. of poles | 12 |
| Coding | A |
| Mounting method | inserted, screwed |
| Thread | M12 x 1 |
| Tightening torque | 0.6 Nm |
| Width across flats | SW14 |
| Material | Brass |
| Degree of protection (EN IEC 60529) | IP67 |
| Side 2 | |
| Stripping length (jacket) | 80 mm |
| Commercial data | |
| URL Webshop | https://shop.murrelektronik.com/7000-19171-7060300 |
| customs tariff number | 85444290 |
| EAN | 4048879851671 |

Packaging unit 1

Electrical data | Supply

| | |
|------------------------------------|-------|
| Operating voltage AC max. | 30 V |
| Operating voltage DC max. | 30 V |
| Current operating per contact max. | 1.5 A |

Diagnostics

| | |
|-----------------------|----|
| Status indication LED | no |
|-----------------------|----|

Installation | Connection

| | |
|--------------------|-----------|
| Mounting set | M16 x 1.5 |
| Width across flats | SW19 |

Device protection | Electrical

| | |
|--|-------------------|
| Degree of protection (EN IEC 60529) | IP67 |
| Protection NEMA | 6P, 4, 3 |
| Additional condition protection degree | inserted, screwed |
| Pollution Degree | 3 |
| Rated surge voltage | 0.8 kV |
| Material group (IEC 60664-1) | I |

Mechanical data

| | |
|-----------------------------|---------|
| Contour for corrugated hose | without |
|-----------------------------|---------|

Mechanical data | Material data

| | |
|---------------------------|---------------|
| Coating housing | nickel plated |
| Material screw connection | Brass |
| Coating of fitting | nickel plated |

Mechanical data | Mounting data

| | |
|-----------------|-------------------|
| Mounting method | inserted, screwed |
|-----------------|-------------------|

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 | DIN EN 61076-2-101 (M12) |
|------------------|--------------------------|

Approvals

| | |
|--------|-----|
| UL 50E | yes |
|--------|-----|

Installation | Cable

| | |
|----------------------------|--|
| Cable identification | 706 |
| Cable Type | 3 |
| Amount stranding | 1 |
| Stranding | 3 wires stranded |
| Amount stranding (type 2) | 1 |
| Stranding (type 2) | 9 wires stranded around stranding combination |
| Cable shielding (type) | copper braid, tinned |
| Cable shielding (coverage) | 80 % |
| Banding | Foil, Fleece |
| Wire arrangement | gray-pink, violet, red-blue, brown, red, gray, black, yellow, pink, green, white, blue |
| Cable weight | 61 g/m |
| Material wire insulation | PP |

| | |
|--|---|
| Amount wires | 12 |
| Outer diameter insulation | 1 mm |
| Outer diameter tolerance core insulation | ± 0.05 mm |
| Shore hardness wire insulation | 70 ± 5 Shore D |
| Ingredient freeness wire insulation | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Amount strands (wire) | 18 |
| Diameter of single wires | 0.1 mm |
| Conductor crosssection (wire) | 0.14 mm ² |
| Material conductor wire | Stranded copper wire, bare |
| Conductor type (wire) | strand class 6 |
| Outer-diameter (jacket) | 6.5 mm |
| Tolerance outer diameter (sheath) | ± 5 % |
| Material jacket | PUR |
| Shore hardness jacket | 90 ± 5 Shore A |
| Freedom from ingredients (jacket) | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Material property (jacket) | abrasion-resistant, low adhesion, good machinability, matte |
| Conductor resistance (wire) | 138 Ω/km @ 20 °C |
| Nominal voltage AC max. | 300 V |
| 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 | 2 A |
| Min. operating temperature (static) | -40 °C |
| Max. operating temperature (fixed) | 80 °C / 90 °C @ 10000 h Operation |
| Operating temperature min. (dynamic) | -25 °C |
| Operating temperature max. (dynamic) | 80 °C / 90 °C @ 10000 h Operation |
| Operating temperature min. (drag chain) | -25 °C |
| Operating temperature max. (drag chain) | 80 °C / 90 °C @ 10000 h Operation |
| Flame resistance | UL 1581 § 1090, CSA FT2, IEC 60332-2-2 |
| Oil resistance | IEC 60811-404 |
| Chemical resistance | good |
| Other resistances | good resistance to gasoline, resistant to hydrolysis, resistant to microbes |
| Bending radius (fixed) | 5 × Outer diameter |
| Bending radius (dynamic) | 10 × 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) | 3.3 m/s @ 25 °C |
| Acceleration (C-track) | 5 m/s ² @ 25 °C |
| No. of torsion cycles | 2 Mio. |
| Torsion stress | ± 30 °/m |
| Torsion speed | 35 cycles/min |