

**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 kg

Country of origin: DE

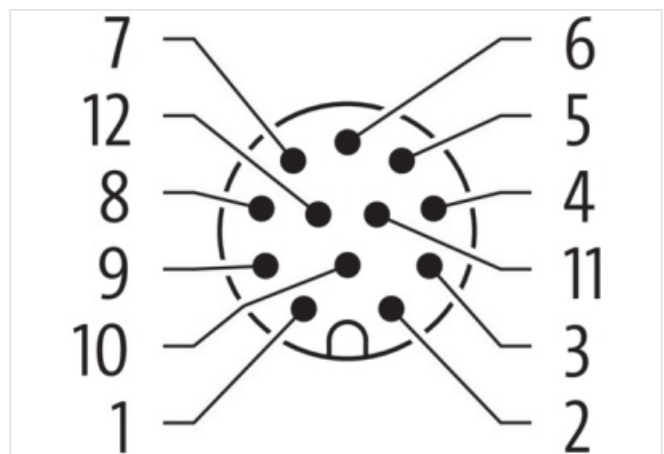
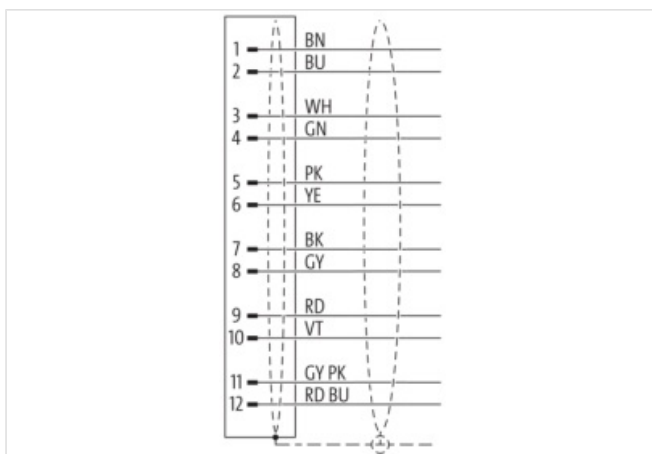
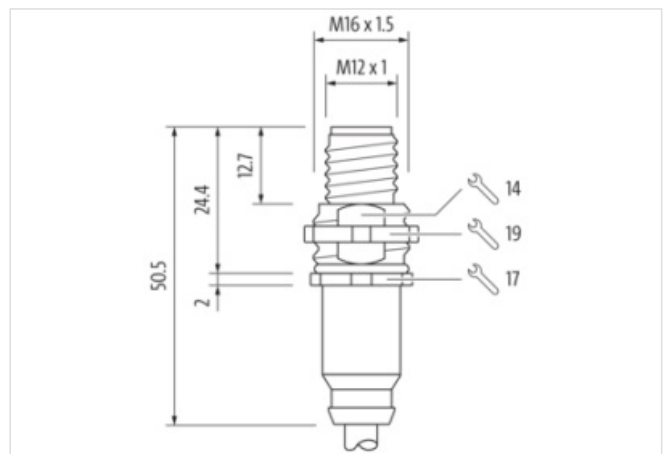
Model designation: MSAFH-12E706\_3.0-ZE

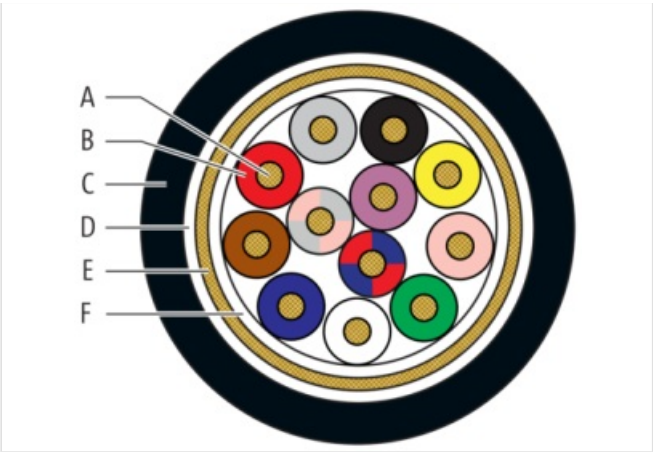
Flange male

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
Threaded hole	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	<a href="https://shop.murrelektronik.com/7000-19171-7060300">https://shop.murrelektronik.com/7000-19171-7060300</a>
customs tariff number	85444290
EAN	4048879851671

Packaging unit	1
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**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
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**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
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**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
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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	<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.

**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	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 mm²
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 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 max. (wire)	2 A
Operating temperature min. (static)	-40 °C
Operating temperature max. (static)	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	IEC 60332-2-2, UL 1581 § 1090, CSA FT2
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/s² @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 30 °/m
Torsion speed	35 cycles/min