

**M12 male 0°/ M12 female recept. A-cod. shielded**

PUR 0.20+0.38 shielded gn UL/CSA+drag ch. 5m

Art.No.: 7000-SS085-8800500

Weight: 0.384 kg

Country of origin: DE

Model designation: MSBFH-A-35D880\_5.0-ZS

**Advantages of our connectors:**

Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available [on request](#)

If you are missing technical information? Please feel free to use our [dictionary](#) to find more technical details.

**Product details:**

Ethernet CAT5

Male straight – flange female straight

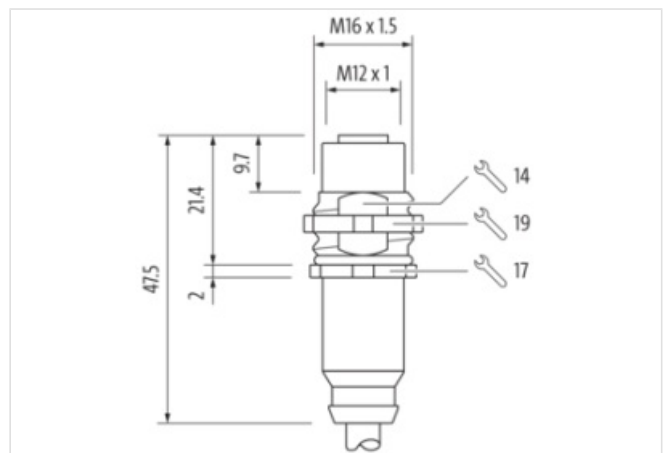
M12 – M12, 8-pole

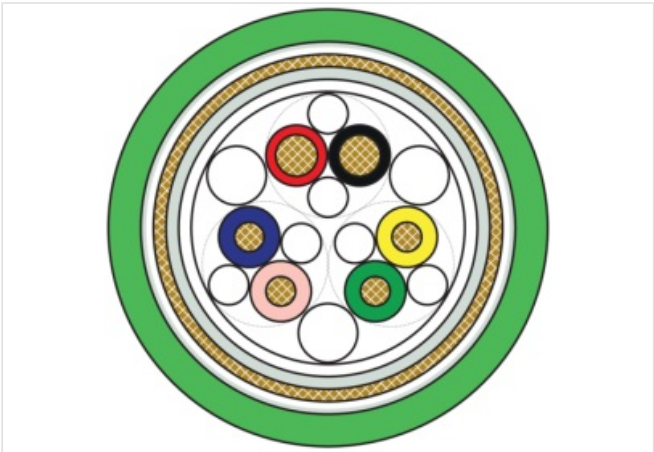
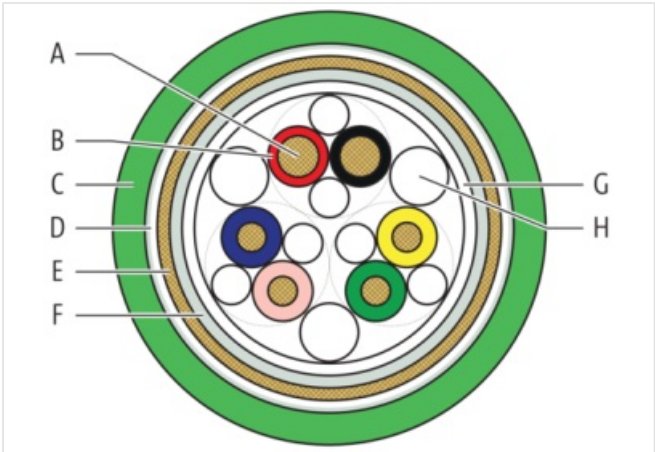
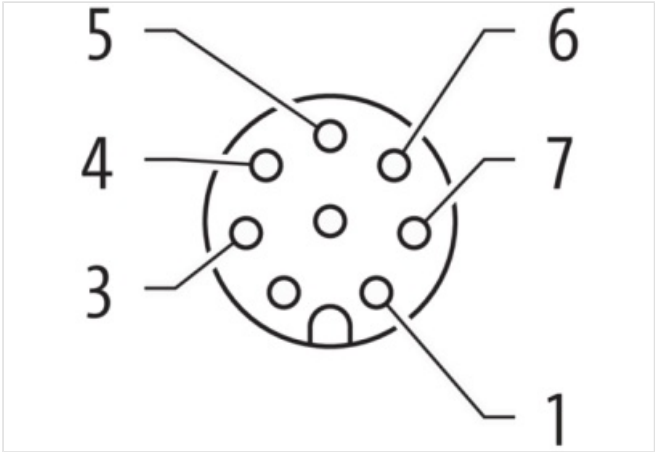
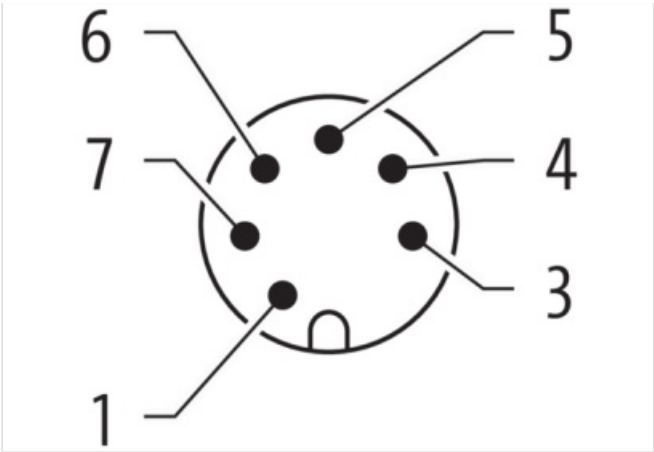
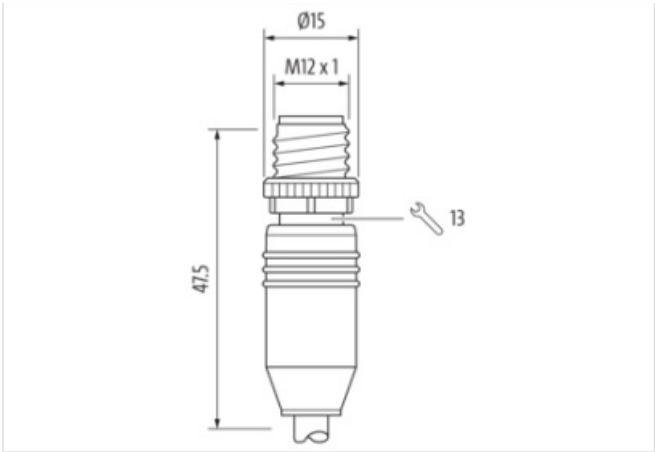
Shielded

Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

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

Material short text MSBFH-A-35D880\_5.0-ZS

Cable length 5,00 m

Side 1

Family construction form	M12
No. of poles	6
Coding	A
Gender	male
Mounting method	pluggable, screwed
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW13
Cable outlet	straight
Degree of protection (EN IEC 60529)	IP67

**Side 2**

Family construction form	M12
No. of poles	6
Coding	A
Gender	female
Cable outlet	straight

**Commercial data**

URL Webshop	<a href="https://shop.murrelektronik.com/7000-SS085-8800500">https://shop.murrelektronik.com/7000-SS085-8800500</a>
GTIN	4048879618090
ECLASS-6.0	27061801
ECLASS-6.1	27279220
ECLASS-7.0	27440103
ECLASS-7.1	27440103
ECLASS-8.0	27440103
ECLASS-8.1	27440103
ECLASS-9.0	27440103
ECLASS-9.1	27440109
ECLASS-10.0.1	27440109
ECLASS-10.1	27440103
ECLASS-11.0	27440109
ECLASS-11.1	27440103
ECLASS-12.0	27440103
ECLASS-13.0	27440109
ECLASS-14.0	27440109
ETIM-5.0	EC001855
ETIM-6.0	EC001855
ETIM-7.0	EC001855
ETIM-8.0	EC001855
customs tariff number	85444290
EAN	4048879618090
Packaging unit	1

**Electrical data | Supply**

Operating voltage AC max.	30 V
Operating voltage DC max.	30 V
Current operating per contact max.	2 A

**Industrial Communication**

Data transmission rate max.	100 Mbit/s
Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)

**Industrial communication | Ethernet functionality**

duplex	Full duplex
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**Device protection | Electrical**

Degree of protection (EN IEC 60529)	IP67
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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

Material housing	PUR
Locking material	Zinc die-casting
Coating locking	Nickeled

#### Mechanical data | Mounting data

Mounting method	inserted, screwed, Shaking protection
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#### Environmental characteristics | Climatic

Operating temperature min.	-25 °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.

#### Approvals

UL 50E	Yes
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#### Installation | Cable

Cable identification	880
Function cable	Hybrid
Amount stranding	3
Stranding	2 wires stranded with 2 fillers
Amount stranding (type 2)	1
Stranding (type 2)	3 stranding combinations stranded with 3 fillers
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding	Fleece, Foil
Filler	Yes
Wire arrangement	(green, yellow), (pink, blue), (red, black)
Cable weight	69 g/m
Material wire insulation	Polyolefin
Amount wires	4
Outer diameter insulation	1 mm
Outer diameter tolerance core insulation	± 0,05 mm
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	19
Diameter of single wires	0,118 mm
Conductor crosssection (wire)	0,2 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Material wire insulation (type 2)	Polyolefin
Outer diameter wire insulation (type 2)	1 mm
Tolerance outer diameter wire insulation (type 2)	± 0,05 mm
Ingredient freeness wire insulation (type 2)	lead-free, CFC-free, halogen-free, silicone-free
Amount wires (type 2)	2

Amount strands wire (type 2)	19
Diameter of single wires (type 2)	0,16 mm
Conductor crosssection wire (type 2)	0,38 mm <sup>2</sup>
Material conductor wire (type 2)	copper stranded wire, tinned
Wire conductor type (type 2)	strand class 6
Outer-diameter (jacket)	7 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	PUR
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free, silicone-free
Conductor resistance (wire)	94 Ω/km @ 20 °C
Conductor resistance (wire type 2)	55 Ω/km @ 20 °C
Isolation resistance	1.000 MΩ × km
Nominal voltage max.	30 V
Withstand voltage (wire - wire)	0.5 kV @ 60 s
Withstand voltage (wire - jacket)	0.5 kV @ 60 s
Withstand voltage (wire - shield)	0.5 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity max. (wire)	2,4 A
Current load capacity max. Wire (type 2)	6 A
Characteristic impedance	100 Ω - 5 % @ 100 MHz
Operating temperature min. (static)	-20 °C
Operating temperature max. (static)	80 °C
Operating temperature min. (dynamic)	-20 °C
Operating temperature max. (dynamic)	60 °C
Operating temperature min. (drag chain)	-20 °C
Operating temperature max. (drag chain)	60 °C
Flame resistance	IEC 60332-1-2, UL 1581 § 1060
Oil resistance	IEC 60811-404
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	11 × Outer diameter
No. of bending cycles (C-track)	5 Mio. @ 25 °C
Traversing distance (C-track)	50 m @ 25 °C   horizontal
Travel speed (C-track)	5 m/s @ 25 °C
Acceleration (C-track)	50 m/s <sup>2</sup> @ 25 °C
Torsion stress	± 30 °/m