

**M12 male 0° / M12 fem. 0° shielded 8p.**

Specification: 6FX8002-2DC34-1AG7

Art.No.: 7000-SS081-8800670

Weight: 0.485 kg

Country of origin: DE

Model designation: M6FX8002-2DC34-1AG7

**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:**

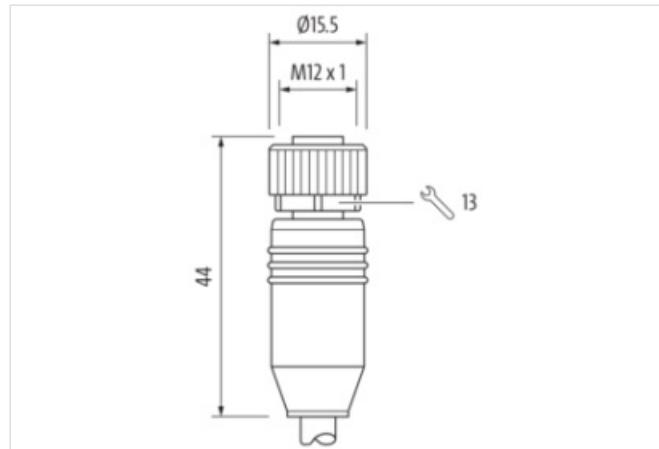
Male straight – female straight

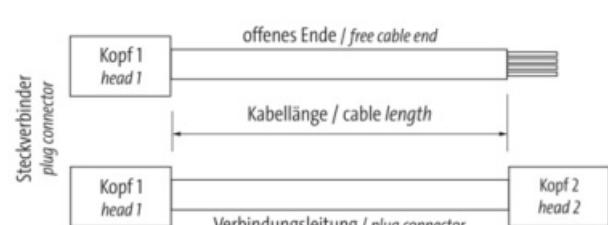
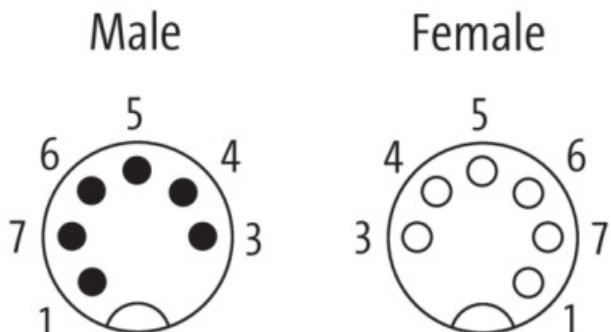
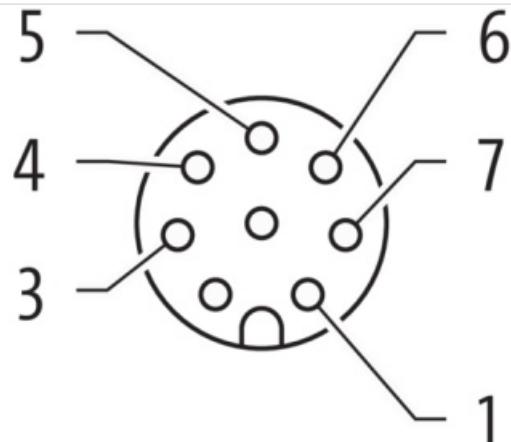
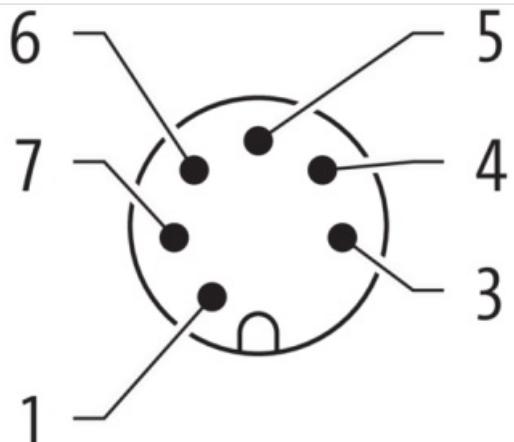
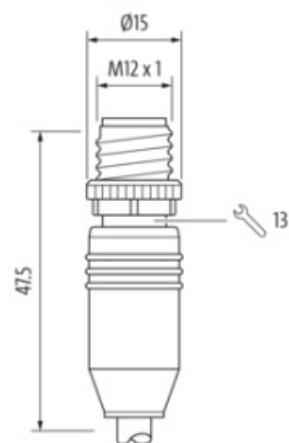
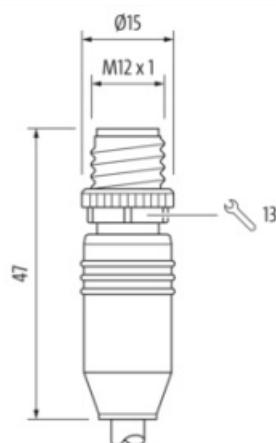
M12 – M12, 8-pole

Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

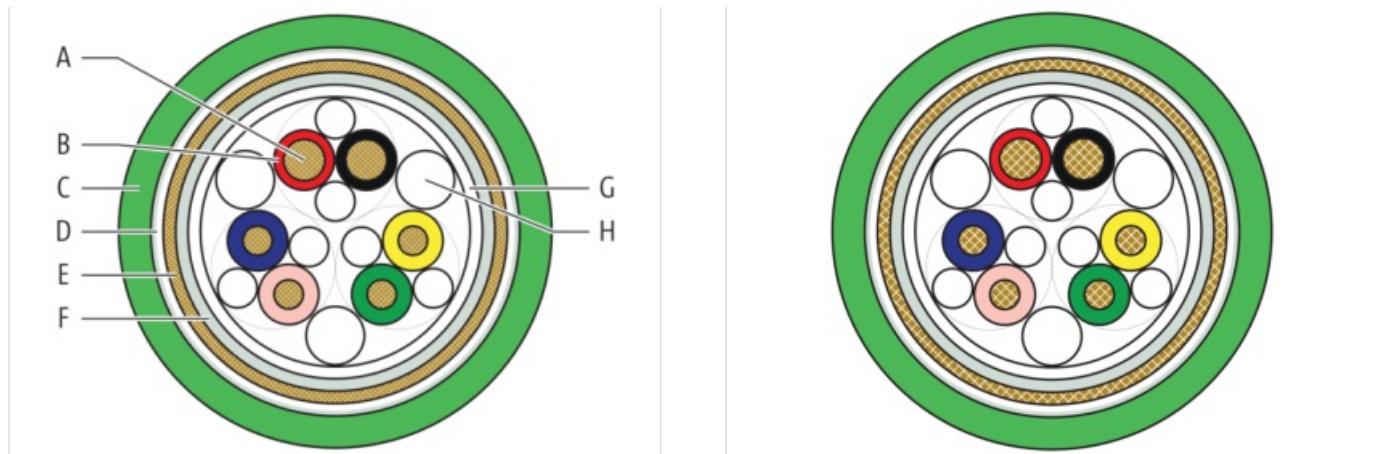
The resistance to aggressive media should be individually tested for your application. Further details on request.

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




Toleranz Kabellängen:  
cable length tolerances

0m < L ≤ 0,5m	+0,03m	1,0m < L ≤ 3,0m	+0,1m
0,5m < L ≤ 1,0m	+0,05m	3,0m < L	±1,5%



Product may differ from Image



#### Header

Material short text	M6FX8002-2DC34-1AG7
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Cable length	6,70 m
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#### Side 1

Family construction form	M12
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Coding	A
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Gender	male
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Threaded hole	M12 x 1
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Tightening torque	0,6 Nm
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Width across flats	SW13
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Cable outlet	straight
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#### Side 2

Family construction form	M12
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Coding	A
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Gender	female
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Threaded hole	M12 x 1
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Tightening torque	0,6 Nm
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Width across flats	SW13
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Cable outlet	straight
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#### Commercial data

URL Webshop	<a href="https://shop.murrelektronik.com/7000-SS081-8800670">https://shop.murrelektronik.com/7000-SS081-8800670</a>
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GTIN	4048879654227
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ECLASS-6.0	27061801
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ECLASS-6.1	27060307
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ECLASS-7.0	27060307
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ECLASS-7.1	27060307
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ECLASS-8.0	27060307
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ECLASS-8.1	27060307
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ECLASS-9.0	27060307
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ECLASS-9.1	27060307
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ECLASS-10.0.1	27060307
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ECLASS-10.1	27060307
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ECCLASS-11.0	27060307
ECCLASS-11.1	27060307
ECCLASS-12.0	27060307
ECCLASS-13.0	27060307
ECCLASS-14.0	27060307
ETIM-5.0	EC000830
ETIM-6.0	EC000830
customs tariff number	85444290
EAN	4048879654227
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

#### Installation | Connection

Tightening torque	0,6 Nm
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#### Device protection | Electrical

Degree of protection (EN IEC 60529)	IP67
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	Brass
Coating housing	nickel plated
Color housing	black
Locking material	Zinc die-casting
Coating locking	Nickelated

#### 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.
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Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
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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 mm <sup>2</sup>
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 x 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 x Outer diameter
Bending radius (dynamic)	11 x 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