

M23 SIGNAL CABLE

Specification: 6FX8002-2EQ14-1AH5

Art.No.: 7000-SS165-8110750

Weight: 1.198

Country of origin: DE

Model designation: M6FX8002-2EQ14-1AH5

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:

Signal cable for SINAMICS S120 and motors with connection M23

Female straight – male straight

M23 – M23, 17-pole

without cable sleeves

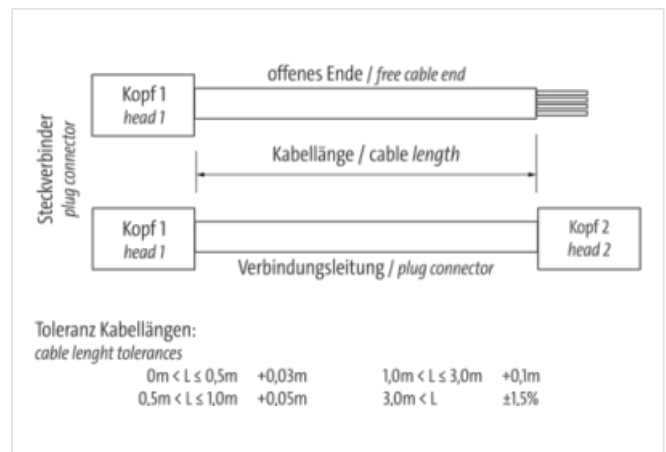
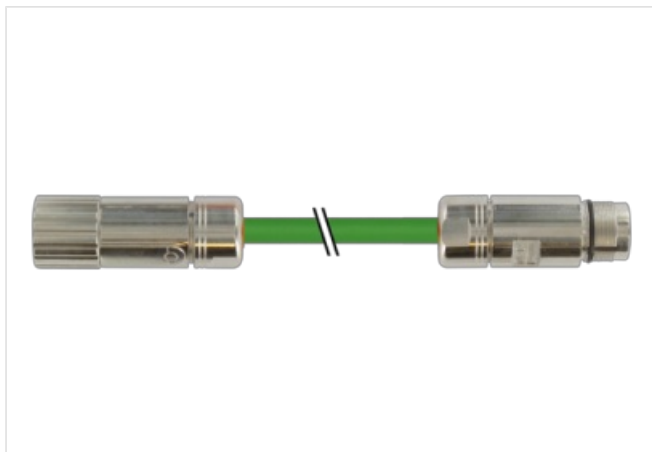
Further cable lengths on request.

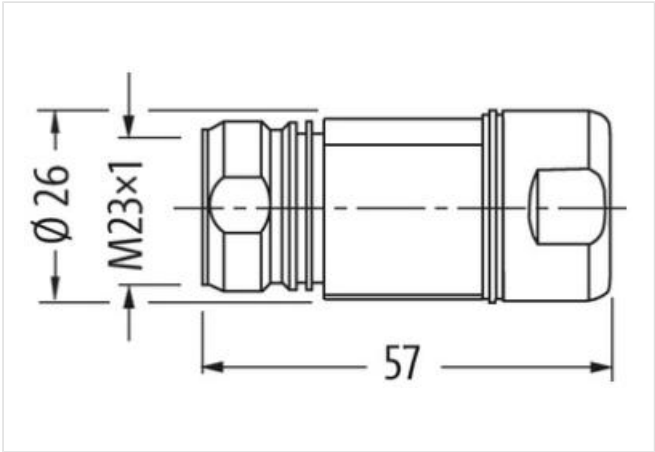
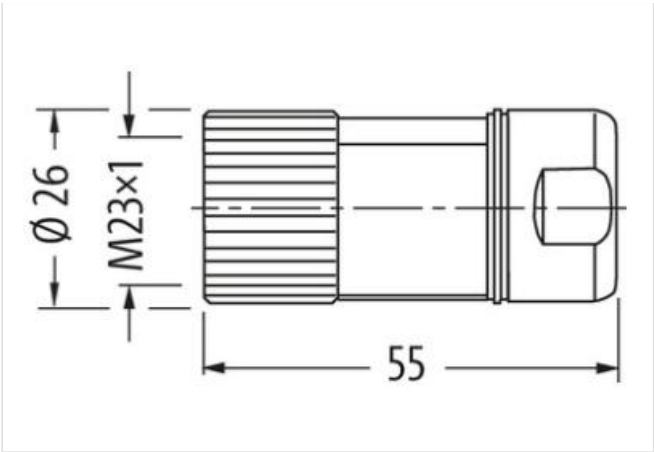
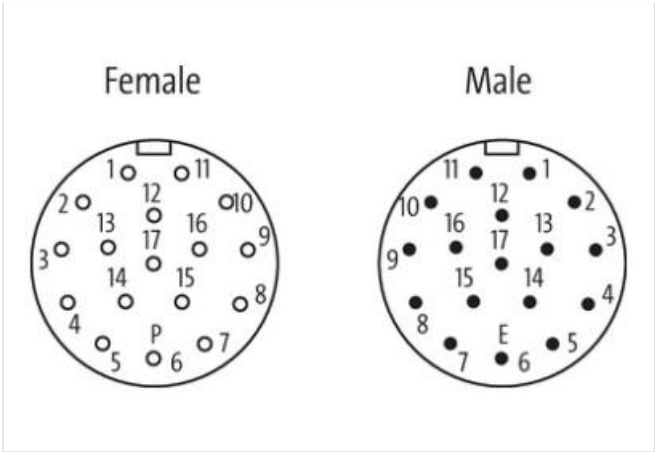
The resistance to aggressive media should be individually tested for your application. Further details on request.

Plastic housings with good resistance against chemicals and oils.

Link to Product

Illustration





Product may differ from Image

Cable length 7,5 m

Side 1

Tightening torque 2 Nm
Family construction form M23
Thread M23 x 1
Degree of protection (EN IEC 60529) IP67

Side 2

Tightening torque 2 Nm
Thread M23 x 1

Commercial data

ECLASS-6.0 27279218
ECLASS-7.0 27279218
ECLASS-8.0 27279218
ECLASS-9.0 27060311
ECLASS-10.1 27060307
ECLASS-11.1 27060307
ECLASS-12.0 27060307
ETIM-5.0 EC001855
customs tariff number 85444290
EAN 4048879814546
Packaging unit 1

Electrical data | Supply

Operating voltage AC max.	30 V
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Operating voltage DC max.	30 V
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Device protection | Electrical

Degree of protection (ISO 20653:2013)	IP66K
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,5 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
Coating locking	nickel plated
Locking material	Brass

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 strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
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.

Installation | Cable

wire arrangement	brown-red, brown-blue, green-yellow, brown-yellow, brown-gray, black-green, red-green, red, orange, gray, blue, yellow-white, black-white, brown, black
Cable identification	811
Function cable	Hybrid
Jacket Color	green
Stranding cable total	6 Stranded joints around Core filler twisted
Amount stranding	2
Stranding	4 wires twisted
Amount stranding (type 2)	1
Stranding (type 2)	2 wires twisted
Amount stranding (type 3)	3
Stranding (type 3)	2 wires with Filler twisted
Cable shielding (type)	copper braiding, bare
Cable shielding (coverage)	80 %
Banding	Fleece, Foil
Filler	yes
Drain wire (cross-section)	10 mm²
wire arrangement	brown-red, brown-blue, green-yellow, brown-yellow, brown-gray, black-green, red-green, red, orange, gray, blue, yellow-white, black-white, brown, black
Cable weight	134,2 g/m
Material jacket	PUR
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	9,5 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	PP
Amount wires	10
Outer diameter insulation	0,91 mm

Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	65 ± 5 Shore D
Amount strands (wire)	7
Diameter of single wires	0,16 mm
Conductor crosssection (wire)	0,14 mm²
Drain wire (cross-section)	10 mm²
Material conductor wire	Stranded copper wire, bare
Material wire insulation (Data)	PP
Outer diameter wire insulation (Data)	1 mm
Tolerance outer diameter wire insulation (data)	± 5 %
Shore hardness wire insulation (Data)	65 ± 5 Shore D
Amount wires (Data)	4
Amount strands wire (Data)	7
Diameter of single wires (Data)	0,127 mm
Conductor crosssection wire (Data)	0,22 mm²
Material conductor wire (Data)	copper stranded wire, tinned
Material wire insulation (Power)	PP
Outer diameter wire insulation (Power)	1,35 mm
Tolerance outer diameter wire insulation (Power)	±5 %
Shore hardness wire insulation (Power)	65 Shore D±5 Shore D
Amount wires (Power)	2
Diameter of single wires (Power)	0,18 mm
Wire conductor cross section (Power)	0,5 mm²
Material conductor wire (Power)	copper stranded wire, tinned
Nominal voltage AC max.	30 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	2,4 A
Current load capacity min. Wire (Data)	2,4 A
Current carrying capacity min. wire (Power)	9 A
Characteristic impedance	80 Ω ± 5 % MHz
Electrical resistance line constant wire	148,9 Ω/km @ 20 °C
Electrical resistance coating wire (Power)	41 Ω/km @20 °C
Electrical resistance coating wire (Data)	93,3 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	0,5 kV @ 60 s
Electrical capacity line constant (wire - shield)	8000 pF/km
Power frequency withstand voltage (wire - jacket)	0,5 kV @ 60 s
AC withstand voltage (wire - shield)	0,5 kV @ 60 s
Isolation resistance	1000 MΩ × km
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C
Flame resistance	IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404 Good, application-related testing
Bending radius (installation)	x Outer diameter
Bending radius (fixed)	4 x Outer diameter @ 25 °C
Bending radius (dynamic)	6 x Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	300 m @ 25 °C horizontal
Travel speed (C-track)	3 m/s @ 25 °C
Torsion stress	± 30 °/m @ 25 °C