MURR ELEKTRONIK
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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.

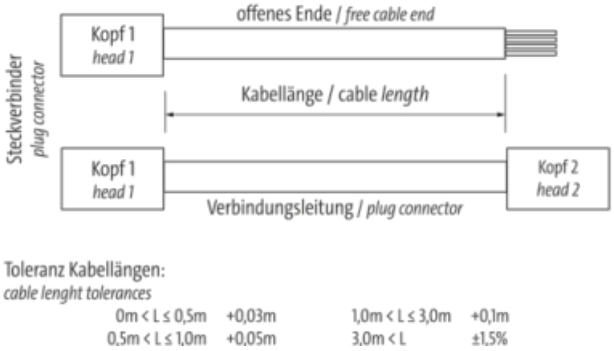
Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available on request

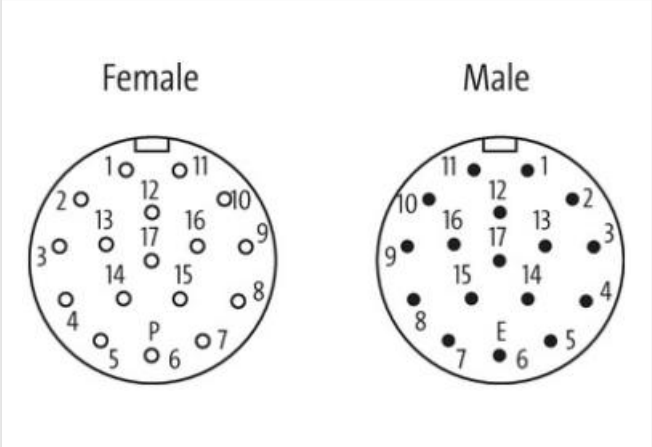
If you are missing technical information? Please feel free to use our dictionary to find more technical details.

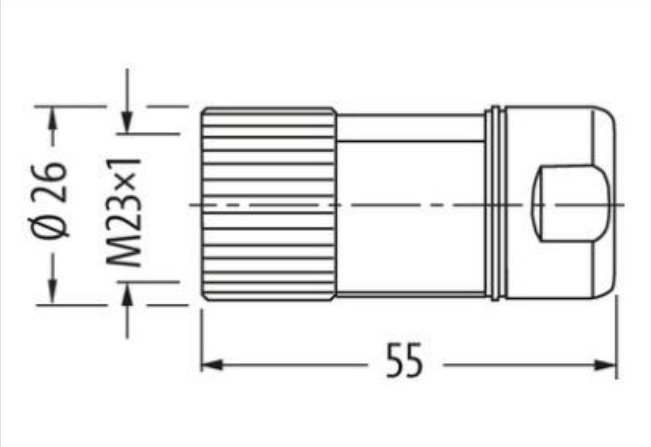
Product details:
Signal cable for SINAMICS S120 and motors with connection M23
Female straight – male straight
M23 – M23, 17-pole
without cable sleeves
Further cable lengths on request.
The resistance to aggressive media should be individually tested for your application. Further details on request.
Plastic housings with good resistance against chemicals and oils.

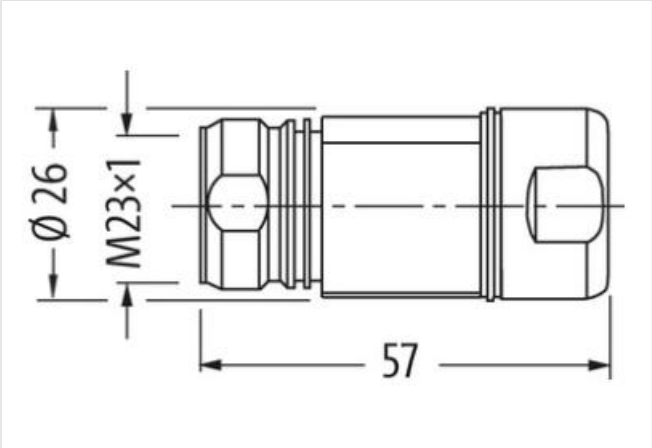
Link to Product

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**
customs tariff number	**85444290**
GTIN	**4048879814546**
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Packaging unit	**1**
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Electrical data | Supply	
Operating voltage AC max.	**30 V**
Operating voltage DC max.	**30 V**
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**
Mechanical data | Material data	
Material housing	**PUR**
Coating locking	**nickel plated**
Locking material	**Brass**
Mechanical data | Mounting data	
Mounting method	**inserted, screwed, Shaking protection**
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 weigth	**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 %**

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Material wire insulation	PP
Amount wires	10
Outer diameter insulation	0,85 mm
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
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)	1,3 mm
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

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