MURR ELEKTRONIK
stay connected

M23 SIGNAL CABLE

Specification: M6FX8002-2CA31-1BC0

Art.No.: 7000-SS261-8111200
Weight: 1.649 kg
Country of origin: DE
Model designation: M6FX8002-2CA31-1BC0

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

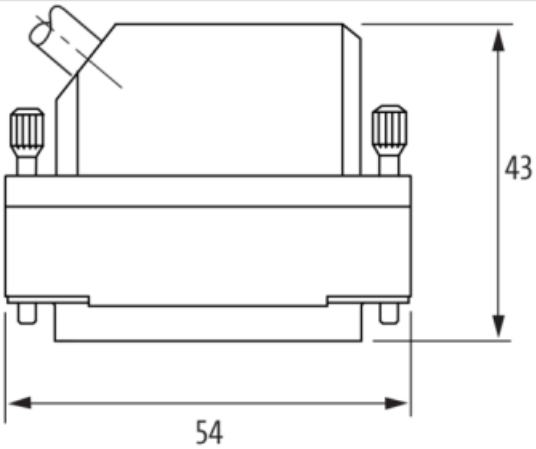
If you are missing technical information? Please feel free to use our dictionary to find more technical details.

Product details:

Signal cable for SINAMICS S120 and motors with connection M23
Female straight – female 90°
M23, 17-pole – SUB-D25
Shielded
without cable sleeves
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



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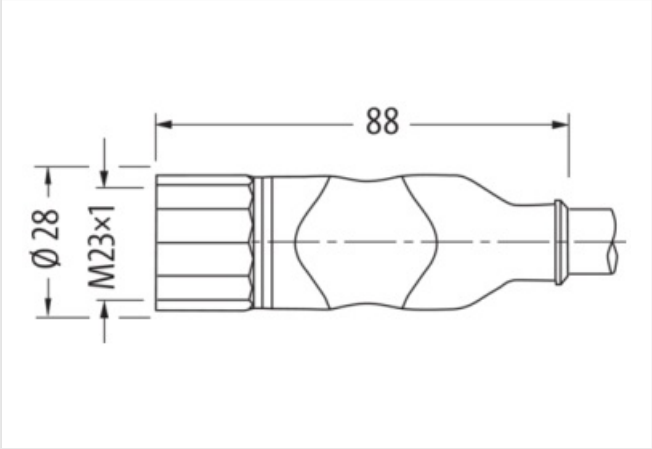

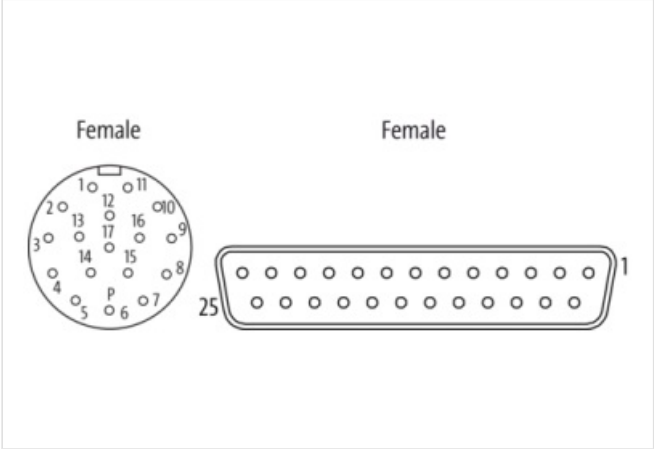

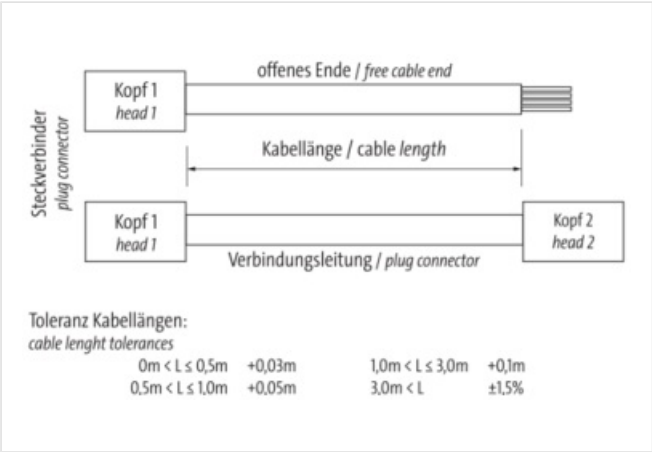

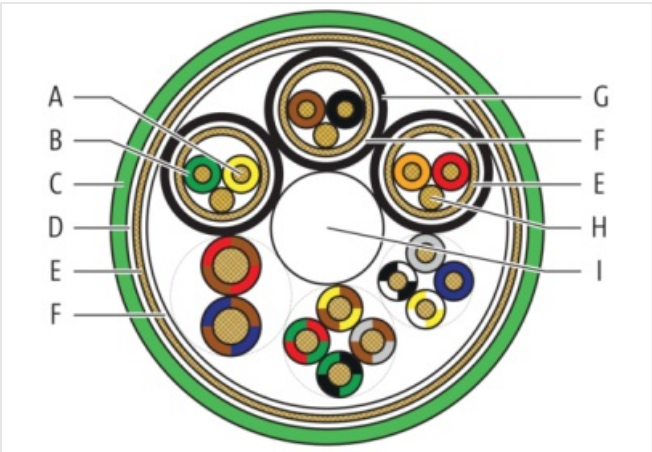

Product may differ from Image

Header	
Material short text	M6FX8002-2CA31-1BC0
Cable length	12,00 m
Side 1	
Family construction form	M23
Threaded hole	M23 x 1
Tightening torque	2 Nm
Width across flats	SW27

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suitable for corrugated tube (internal Ø)	16 mm
Degree of protection (EN IEC 60529)	IP67, IP65
Side 2	
Family construction form	SUB-D25
Degree of protection (EN IEC 60529)	IP20
Commercial data	
URL Webshop	https://shop.murrelektronik.com/7000-SS261-8111200
GTIN	4048879586894
ECLASS-6.0	27279218
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-7.1	27060307
ECLASS-8.0	27060307
ECLASS-8.1	27060307
ECLASS-9.0	27060307
ECLASS-9.1	27060307
ECLASS-10.0.1	27060307
ECLASS-10.1	27060307
ECLASS-11.0	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ECLASS-13.0	27060307
ECLASS-14.0	27060307
ETIM-5.0	EC001855
ETIM-6.0	EC001855
ETIM-7.0	EC001855
ETIM-8.0	EC001855
customs tariff number	85444290
EAN	4048879586894
Packaging unit	1
Electrical data | Supply	
Operating voltage AC max.	30 V
Operating voltage DC max.	30 V
Device protection | Electrical	
Pollution Degree	3
Rated surge voltage	0,5 kV
Material group (IEC 60664-1)	I
Mechanical data | Material data	
Material housing	PUR
Locking material	Brass
Coating locking	nickel plated
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 bending radius	**Attention:** 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.

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Installation | Cable	
Cable identification	811
Function cable	Hybrid
Amount stranding	2
Stranding	4 wires stranded
Amount stranding (type 2)	1
Stranding (type 2)	2 wires stranded
Amount stranding (type 3)	3
Stranding (type 3)	2 wires stranded with hatchet strand
Amount stranding (type 4)	1
Stranding (type 4)	6 stranding combinations stranded around core filler
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	122 g/m
Material wire insulation	PP
Amount wires	10
Outer diameter insulation	0,91 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 (type 2)	PP
Outer diameter wire insulation (type 2)	1 mm
Shore hardness wire insulation (type 2)	65 ± 5 Shore D
Amount wires (type 2)	4
Amount strands wire (type 2)	7
Diameter of single wires (type 2)	0,127 mm
Conductor crosssection wire (type 2)	0,22 mm²
Material conductor wire (type 2)	copper stranded wire, tinned
Material wire insulation (type 3)	PP
Outer diameter wire insulation (type 3)	1,35 mm
Shore hardness wire insulation (type 3)	65 ± 5 Shore D
Amount wires (type 3)	2
Diameter of single wires (type 3)	0,18 mm
Wire conductor cross section (type 3)	0,5 mm²
Material conductor wire (type 3)	copper stranded wire, tinned
Outer-diameter (jacket)	9,5 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	PUR
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free, silicone-free
Conductor resistance (wire)	148.9 Ω/km @ 20 °C
Conductor resistance (wire type 2)	93.3 Ω/km @ 20 °C
Conductor resistance (wire type 3)	41 Ω/km @ 20 °C
Electrical capacity line constant (wire - shield)	8.000 pF/km
Isolation resistance	1.000 MΩ × km
Nominal voltage max.	30 V
Withstand voltage (wire - wire)	0.5 kV @ 60 s

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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)	2,4 A
Current carrying capacity max. wire (type 3)	9 A
Characteristic impedance	80 Ω 5 MHz
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C
Bending radius (fixed)	4 × Outer diameter
Bending radius (dynamic)	6 × 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
Acceleration (C-track)	5 m/s² @ 25 °C
Torsion stress	± 30 °/m

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