

M23 SIGNAL CABLE

Specification: M6FX8002-2CA31-1BC0

Art.No.: 7000-SS261-8111200

Weight: 1.649 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

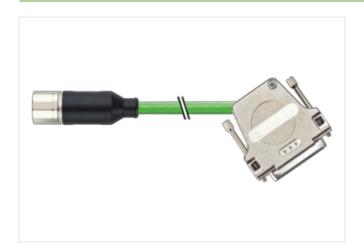
Further cable lengths on request.

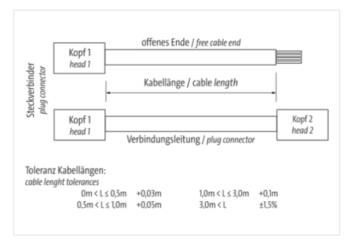
Plastic housings with good resistance against chemicals and oils.

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

Link to Product

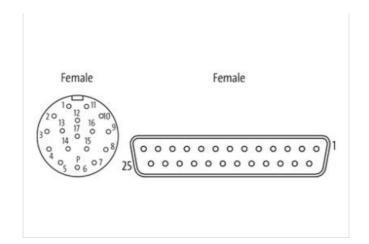
Illustration

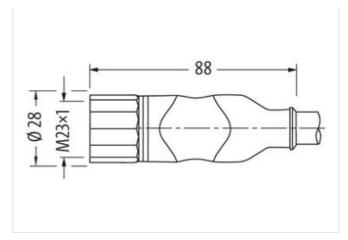


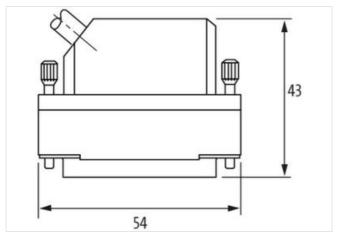




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Product may differ from Image

Cable length	12 m
Side 1	
Tightening torque	2 Nm
Family construction form	M23
Thread	M23 x 1
suitable for corrugated tube (internal Ø)	16 mm
Width across flats	SW27
Degree of protection (EN IEC 60529)	IP65, IP67
Side 2	
Family construction form	SUB-D25
Degree of protection (EN IEC 60529)	IP20
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-8.0	27060307
ECLASS-9.0	27060307
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC001855
customs tariff number	85444290

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EAN	4048879586894
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Packaging unit	1
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)	
Mechanical data Material data	
Material housing	PUR
Coating locking	nickel plated
Locking material	Brass
	D1400
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
Orain wire (cross-section)	10 mm ²
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
	PUR
Material jacket	
Material jacket Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free, silicone-free
·	lead-free, CFC-free, halogen-free, silicone-free 9,5 mm
Freedom from ingredients (jacket)	



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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 mm ²
Drain wire (cross-section)	10 mm ²
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 mm ²
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
	10 Mio. @ 25 °C
NO OF DENOING CYCIES (C:-Track)	
No. of bending cycles (C-track) Traversing distance (C-track)	
No. of bending cycles (C-track) Traversing distance (C-track) Travel speed (C-track)	300 m @ 25 °C horizontal 3 m/s @ 25 °C