

## **M23 SERVO CABLE**

specification: 6FX5002-5DA01-1BA0

Power cable with brake wires for SINAMICS S120 and motors with M23 connection and holding brake Female straight - pre-wired terminals

M23, 6-pole

shielded

Further cable lengths on request.

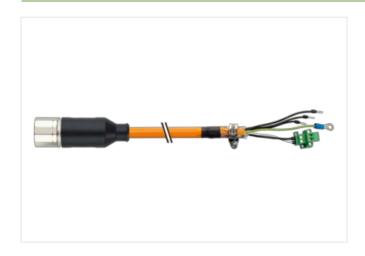
Plastic housings with good resistance against chemicals and oils.

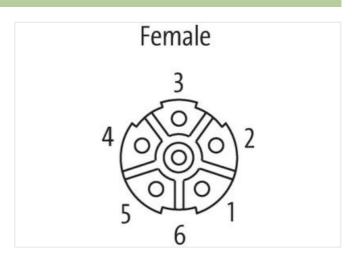
The resistance to aggressive media should be individually tested for your application. Further details on request.

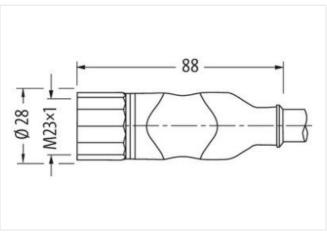
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

## **Link to Product**

## Illustration







Product may differ from Image

Cable length	10 m
Side 1	
Tightening torque	2 Nm
Family construction form	M23
Thread	M23 x 1
suitable for corrugated tube (internal Ø)	16 mm

The information in this Product-PDF has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-18



stay connected

Width across flats	SW27
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060327
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060327
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879507349
Packaging unit	1
Electrical data   Supply	
Operating voltage AC per power contact max.	600 V
Operating voltage AC per power contact max.  Operating voltage AC per signal contact max.	250 V
Operating voltage AC per signal contact max.  Operating voltage DC per power contact max.	600 V
Operating voltage DC per power contact max.  Operating voltage DC per signal contact max.	250 V
	230 V
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage power contacts	4 kV
Rated surge voltage signal contacts	2 kV
Material group (IEC 60664-1)	I
Mechanical data   Material data	
Coating locking	nickel plated
Material housing	PUR
Locking material	Brass
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
	mocroa, solowed, channing 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	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation   Cable	
Cable identification	861
Function cable	Hybrid, Signal, Power
Jacket Color	orange
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires with Filler twisted
Amount stranding (type 2)	1
Stranding (type 2)	4 wires with Filler around Stranding combination twisted
Cable shielding (type)	copper braid, tinned
	CARAGE LACINA DIDIEGA

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-18



stay connected

copper braid, tinned
Fiber tape, Fleece, Foil
yes
black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)
203,5 g/m
PVC
lead-free, CFC-free, silicone-free
10,4 mm
± 5 %
TPM
2
2,4 mm
± 5 %
lead-free, CFC-free, silicone-free
30
0,25 mm
1,5 mm²
Stranded copper wire, bare
Strand class 5
2,4 mm
±5 %
lead-free, CFC-free, silicone-free
white (isolation black)
4
30
0,25 mm
1,5 mm²
Stranded copper wire, bare
Strand class 5
1000 V
600 V
to DIN VDE 0298-4
12,6 A
12,6 A
13,7 Ω/km @ 20 °C
13,7 Ω/km @20 °C
2 kV @ 60 s
100000 pF/km
160000 pF/km
2 kV @ 60 s
2 kV @ 60 s
5000 MΩ × km
250000 pF/km
150000 pF/km
4 kV @ 60 s
4 kV @ 60 s
4 kV @ 60 s 4 kV @ 60 s
4 kV @ 60 s
4 kV @ 60 s -25 °C



Flame resistance	UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	18 x Outer diameter
No. of bending cycles (C-track)	0,1 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	0,5 m/s @ 25 °C
Torsion stress	± 30 °/m