

M23 servo cable

specification: 6FX5002-5DA05-1AF0

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

M23 - M23, 6-pole

shielded

without cable sleeves

Further cable lengths on request.

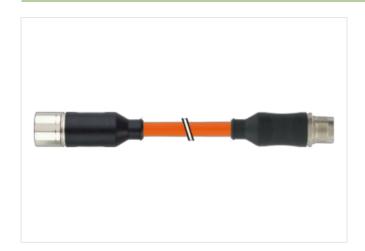
Plastic housings with good resistance against chemicals and oils.

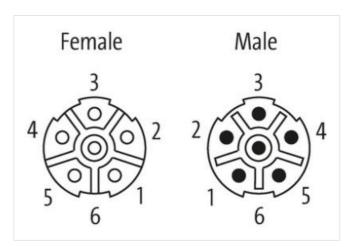
The resistance to aggressive media should be individually tested for your application. Further details on request.

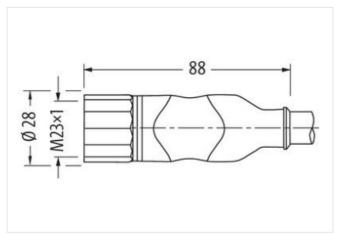
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

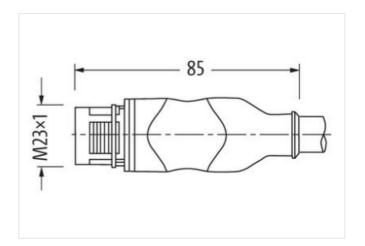
Link to Product

Illustration









Product may differ from Image

Cable length	6 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 Side 2 M23 Family construction form suitable for corrugated tube (internal Ø) 23 mm 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 FC001855 customs tariff number 85444290 GTIN 4048879752121 Packaging unit Electrical data | Supply Operating voltage AC per power contact max. 600 V Operating voltage AC per signal contact max. 250 V Operating voltage DC per power contact max. 600 V Operating voltage DC per signal contact max. 250 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) Mechanical data | Material data Coating locking nickel plated Material housing PUR Locking material Brass Mechanical data | Mounting data Mounting method inserted, screwed, Shaking protection **Environmental characteristics | Climatic** -25 °C Operating temperature min. 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. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be Note on bending radius endangered by excessive bending forces. Installation | Cable black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow) wire arrangement Cable identification 861 Function cable Hybrid, Signal, Power Jacket Color orange Type of Certificate cURus Amount stranding 1



stay connected

2 wires with Filler twisted
1
4 wires with Filler around Stranding combination twisted
copper braid, tinned 85 %
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 mm ²
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 mm ²
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
2 kV @ 60 s
2 kV @ 60 s 100000 pF/km
2 kV @ 60 s 100000 pF/km 160000 pF/km
2 kV @ 60 s 100000 pF/km 160000 pF/km 2 kV @ 60 s
2 kV @ 60 s 100000 pF/km 160000 pF/km 2 kV @ 60 s 2 kV @ 60 s
2 kV @ 60 s 100000 pF/km 160000 pF/km 2 kV @ 60 s 2 kV @ 60 s 5000 MΩ × km
2 kV @ 60 s 100000 pF/km 160000 pF/km 2 kV @ 60 s 2 kV @ 60 s 5000 MΩ × km 250000 pF/km



AC withstand voltage power (wire - wire)	4 kV @ 60 s
Min. operating temperature (static)	-25 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	60 °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