

M23 SERVO CABLE

specification: 6FX5002-5CA01-1BF0

Power cable for SINAMICS S120 and Motors with M23 connection

Female straight - pre-wired terminals

M23, 6-pole

4-pole used

shielded

Further cable lengths on request.

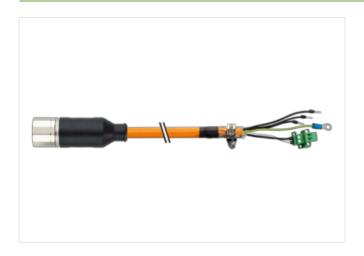
Plastic housings with good resistance against chemicals and oils.

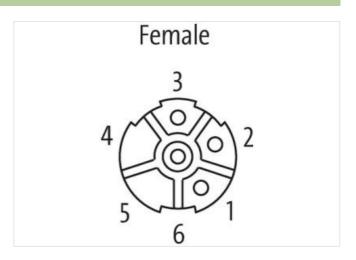
The resistance to aggressive media should be individually tested for your application. Further details on request.

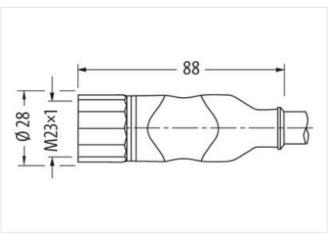
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

Link to Product

Illustration







Product may differ from Image

Cable length	15 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 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 EC000830 85444290 customs tariff number GTIN 4048879741118 Packaging unit Electrical data | Supply 630 V Operating voltage AC max. 630 V Operating voltage DC max. Device protection | Electrical Degree of protection (EN IEC 60529) IP65, IP67 Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 6 kV Material group (IEC 60664-1) ı Mechanical data | Material data nickel plated Coating locking Material housing **PUR** Locking material Brass Mechanical data | Mounting data Mounting method inserted, screwed, Shaking protection Environmental characteristics | Climatic -25 °C Operating temperature min. 85 °C Operating temperature max. 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 wire arrangement black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow Cable identification 865 Jacket Color orange Type of Certificate cURus Amount stranding 1 Stranding 4 wires with Filler twisted Cable shielding (type) copper braid, tinned Cable shielding (coverage) 80 % Banding Fiber tape, Fleece Filler wire arrangement black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow Cable weigth 128,7 g/m

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: 2024-05-29



Material jacket	PVC
Freedom from ingredients (jacket)	lead-free, CFC-free, silicone-free
Outer-diameter (jacket)	8,1 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation (Power)	TPM
Outer diameter wire insulation (Power)	2,4 mm
Tolerance outer diameter wire insulation (Power)	±5 %
Ingredient freeness wire insulation (Power)	lead-free, CFC-free, silicone-free
Printing colour wire insulation (Power)	white (isolation black)
Amount wires (Power)	4
Amount strands wire (Power)	30
Diameter of single wires (Power)	0,25 mm
Wire conductor cross section (Power)	1,5 mm ²
Material conductor wire (Power)	Stranded copper wire, bare
Conductor type wire (Power)	Strand class 5
Max. rated voltage (conductor - conductor)	1000 V
Max. rated voltage (conductor - ground)	600 V
Current load capacity (standard)	to DIN VDE 0298-4
Current carrying capacity min. wire (Power)	14,4 A
Electrical resistance coating wire (Power)	13,7 Ω/km @20 °C
AC withstand voltage (wire - wire)	4 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	4 kV @ 60 s
AC withstand voltage (wire - shield)	4 kV @ 60 s
Isolation resistance	10 MΩ × km
Electrical capacity line constant (wire - shield) (power)	250000 pF/km
Electrical capacity line constant (wire - wire) (power)	150000 pF/km
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	IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing DIN EN 60811-404
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 horizontal
Travel speed (C-track)	0,5 m/s @ 25 °C
Torsion stress	± 30 °/m