

M23 SERVO CABLE

Specification: 6FX5002-5CS01-1AC5

Power cable for SINAMICS S120 and Motors with M23 connection

Female straight - pre-wired terminals

M23, 6-pole

4-pole used

Further cable lengths on request.

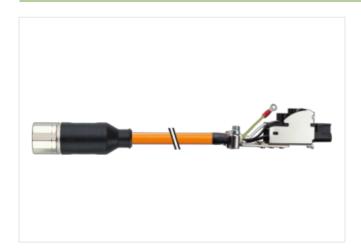
Plastic housings with good resistance against chemicals and oils.

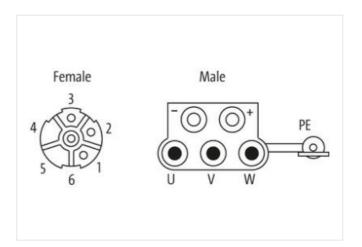
The resistance to aggressive media should be individually tested for your application. Further details on request.

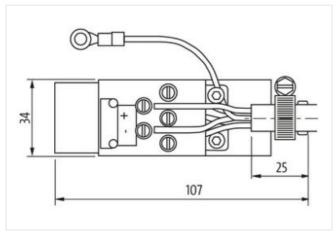
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

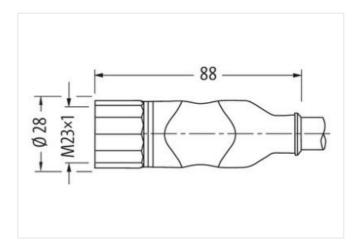
Link to Product

Illustration









Product may differ from Image

Cable length	2,5 m	
Side 1		
Tightening torque	2 Nm	
Family construction form	M23	
Thread	M23 x 1	
Width across flats	SW27	

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: 2024-05-20



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Operating voltage AC max.	630 V	
Operating voltage DC max.	630 V	
Device protection Electrical		
Degree of protection (EN IEC 60529)	IP20, IP67	
Pollution Degree	3	
Mechanical data Material data		
Coating locking	nickel plated	
Material housing	PUR	
ocking material	Brass	
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.	
	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		
vire arrangement	black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow	
Cable identification	865	
lacket 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	yes	
vire arrangement	black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow	
Cable weigth	128,7 g/m	
Material jacket	PVC	
reedom from ingredients (jacket)	lead-free, CFC-free, silicone-free	
Outer-diameter (jacket)	8,1 mm	
olerance outer diameter (sheath)	± 5 %	
Material wire insulation (Power)	TPM	
Outer diameter wire insulation (Power)	2,4 mm	
olerance outer diameter wire insulation Power)	±5 %	
ngredient 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	
Vire conductor cross section (Power)	1,5 mm²	
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	



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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
Commercial data	
customs tariff number	85444290
GTIN	4048879530101
Packaging unit	1