

M23 SERVO CABLE

to be discontinued - Last Time Order: 2026-07-31

Art.No.: 7000-PS015-8651000

Weight: 1.410 kg

Country of origin: DE

Model designation: M6FX5002-5CS01-1BA0

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.

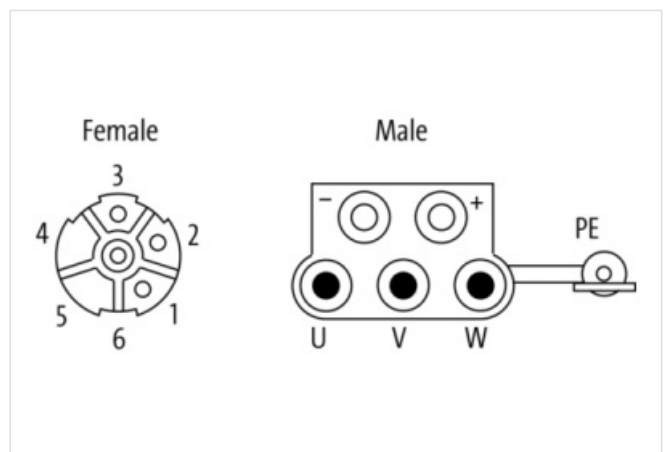
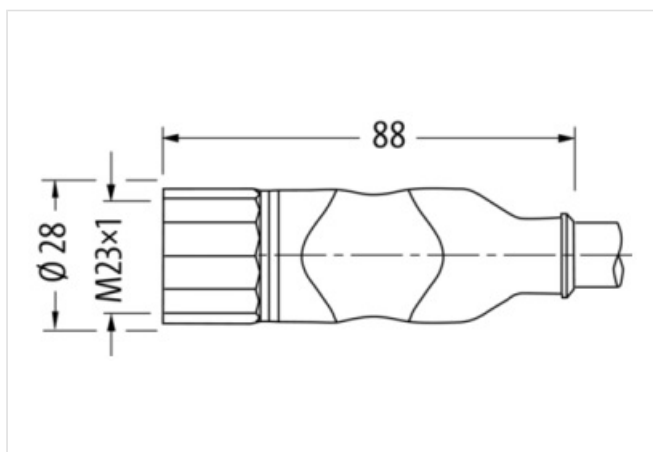
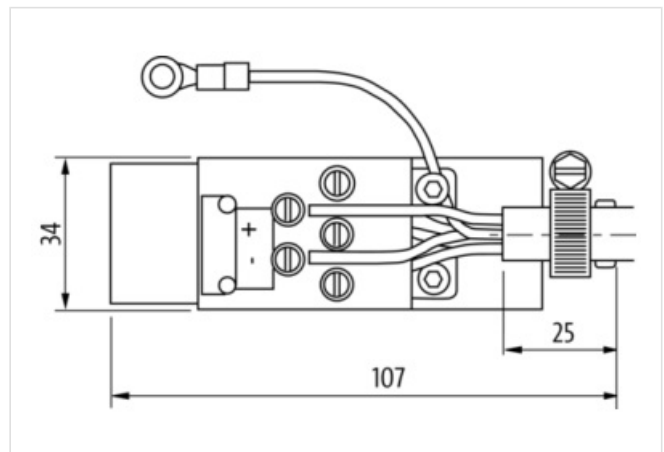
Plastic housings with good resistance against chemicals and oils.

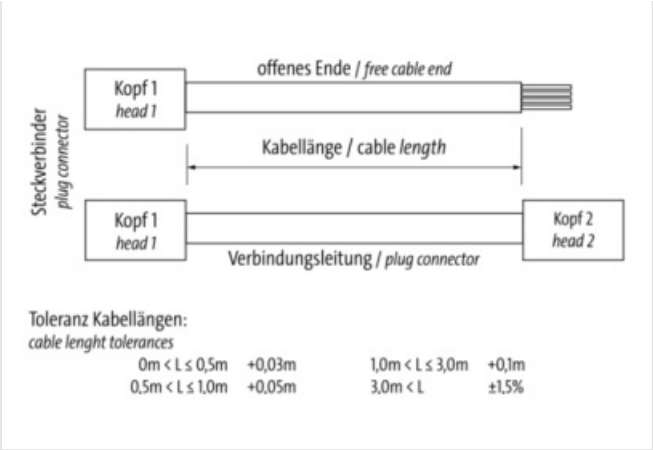
The resistance to aggressive media should be individually tested for your application. Further details on request.

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	10,00 m
Side 1	
Family construction form	M23
Threaded hole	M23 x 1
Tightening torque	2 Nm
Width across flats	SW27
Commercial data	
URL Webshop	https://shop.murrelektronik.com/7000-PS015-8651000
GTIN	4048879507158
EU-Customs tariff number	85444290
US-Customs tariff number	8544429090
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-7.1	27279218
ECLASS-8.0	27279218
ECLASS-8.1	27279218
ECLASS-9.0	27060311
ECLASS-9.1	27060311
ECLASS-10.0.1	27060311
ECLASS-10.1	27060311
ECLASS-11.0	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060327
ECLASS-13.0	27060311
ECLASS-14.0	27060311
ETIM-5.0	EC001855
ETIM-6.0	EC001855
ETIM-7.0	EC001855
ETIM-8.0	EC001855
ETIM-9.0	EC001855
ETIM-10.0	EC001855
customs tariff number	85444290
EAN	4048879507158
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	630 V

Operating voltage DC max. 630 V

Device protection | Electrical

Degree of protection (EN IEC 60529) IP67, IP20
Pollution Degree 3

Mechanical data | Material data

housing PUR
Locking material Brass
Coating locking nickel plated

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 bending radius **Attention:** Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.

Installation | Cable

Cable identification	865
Function cable	Power
Cable weight	117 g/m
UL AWM Style	2570 / -
Stranding	1 × 4 wires stranded with filler
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding	Fiber tape, Fleece
Filler	Yes
Wire arrangement	BK W/L3/D/L-, BK U/L1/C/L+, BK V/L2, GNYE
Shield	shielded
Electrical function wire	Power
Material wire insulation	TPM
Amount wires	4
Outer diameter insulation	2.4 mm ± 0.1 mm
Conductor crosssection (wire)	1,5 mm²
Material conductor wire	Stranded copper wire, bare
Core construction (wire)	30 × 0.25 mm
Ingredient freeness wire insulation	lead-free, CFC-free, silicone-free
Material jacket	PVC
Outer-diameter (jacket)	8.1 mm ± 5 %
Jacket Color	orange / RAL 2003
Freedom from ingredients (jacket)	lead-free, CFC-free, silicone-free
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Conductor resistance (wire)	13.7 Ω/km @ 20 °C
Max. rated voltage (conductor - ground)	600 V
Max. rated voltage (conductor - conductor)	1.000 V
Withstand voltage (wire - wire)	4 kV @ 300 s
Withstand voltage (wire - jacket)	4 kV @ 300 s
Withstand voltage (wire - shield)	4 kV @ 300 s
Current load capacity max. (wire)	14,4 A
Current load capacity (standard)	to DIN VDE 0298-4

Electrical capacity line constant (wire - wire)	100 pF/m
Electrical capacity line constant (wire - wire) (power)	150 pF/m
Electrical capacity line constant (wire - shield)	160 pF/m
Electrical capacity line constant (wire - shield) (power)	250 pF/m
Isolation resistance	5.000 MΩ × km
Operating temperature (static)	-10 °C ... 80 °C
Operating temperature (dynamic)	-10 °C ... 80 °C
Operating temperature (drag chain)	-10 °C ... 80 °C
Flame resistance	IEC 60332-1-2
Oil resistance	UL 1581 @ 60°C, 168 h
Notes	application-related testing
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	18 × 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
Acceleration (C-track)	2 m/s² @ 25 °C