

M23 SERVO CABLE

specification: 6FX5002-5CG01-1BA0

Art.No.: 7000-PS206-8651000

Weight: 1.385 kg

Country of origin: DE

Model designation: M6FX5002-5CG01-1BA0

Female straight

M23, 6-pole

4-pole used

Shielded

without brake wires

Power cable for SINAMICS S120 and Motors with M23 connection

Mounting bracket

without cable sleeves

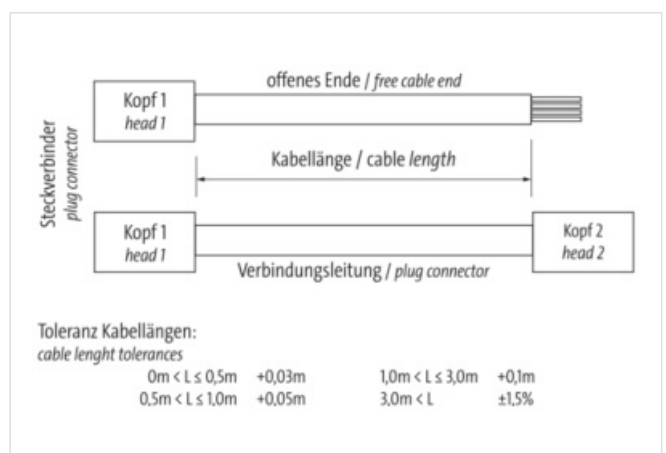
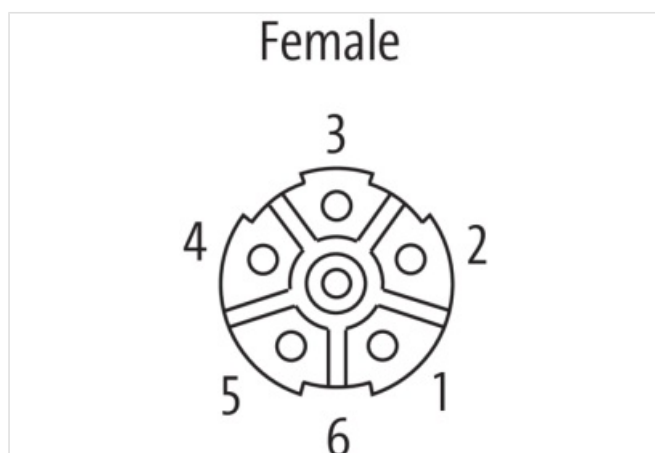
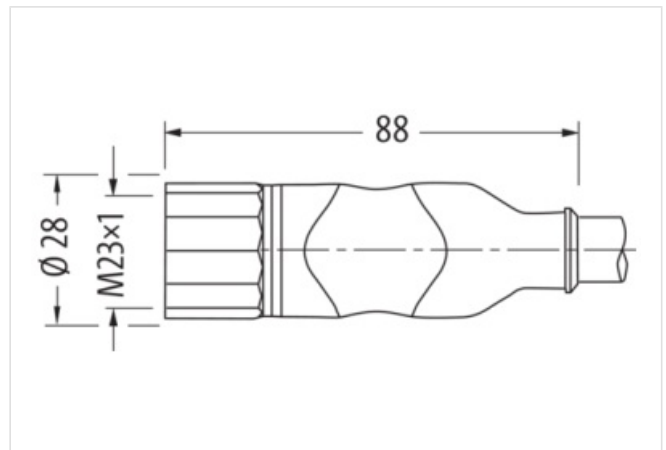
Further cable lengths on request.

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

Plastic housings with good resistance against chemicals and oils.

[Link to Product](#)

Illustration





Product may differ from Image



Header	
Material short text	M6FX5002-5CG01-1BA0
Cable length	10,00 m
Side 1	
Family construction form	M23
Threaded hole	M23 x 1
Tightening torque	2 Nm
Width across flats	SW27
suitable for corrugated tube (internal Ø)	16 mm
Commercial data	
URL Webshop	https://shop.murrelektronik.com/7000-PS206-8651000
GTIN	4048879775366
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	27060327
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
customs tariff number	85444290
EAN	4048879775366

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, IP65
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	6 kV
Material group (IEC 60664-1)	I

Mechanical data | Material data

Material housing	PUR
Locking material	Brass
Coating locking	nickel plated

Mechanical data | Mounting data

Mounting method	inserted, screwed, Shaking protection
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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
Stranding	1 × 4 wires stranded with filler
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding	Fiber tape, Fleece
Filler	Yes
Cable weight	117 g/m
Material wire insulation	TPM
Amount wires	4
Outer diameter insulation	2,4 mm
Outer diameter tolerance core insulation	± 0,1 mm
Ingredient freeness wire insulation	lead-free, CFC-free, silicone-free
Printing color of wire insulation	white (isolation black)
Amount strands (wire)	30
Diameter of single wires	0,25 mm
Conductor crosssection (wire)	1,5 mm ²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Electrical function wire	Power
Outer-diameter (jacket)	8,1 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	PVC
Freedom from ingredients (jacket)	lead-free, CFC-free, silicone-free
Conductor resistance (wire)	13.7 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire)	150.000 pF/km
Electrical capacity line constant (wire - shield)	250.000 pF/km

Isolation resistance	5.000 MΩ × km
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 (standard)	to DIN VDE 0298-4
Current load capacity max. (wire)	14,4 A
Operating temperature min. (static)	-10 °C
Operating temperature max. (static)	80 °C
Operating temperature min. (dynamic)	-10 °C
Operating temperature max. (dynamic)	80 °C
Operating temperature min. (drag chain)	-10 °C
Operating temperature max. (drag chain)	80 °C
Flame resistance	IEC 60332-1-2
Oil resistance	UL 1581 @ 60°C, 168 h
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