MURR ELEKTRONIK
stay connected

M23 SERVO CABLE

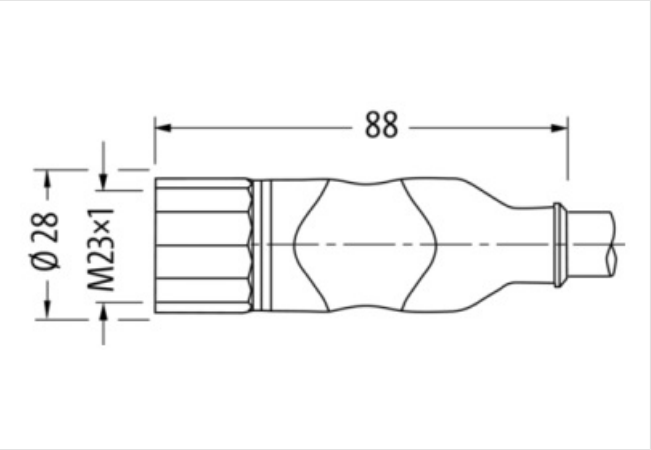
specification: 6FX5002-5CA01-1BA0

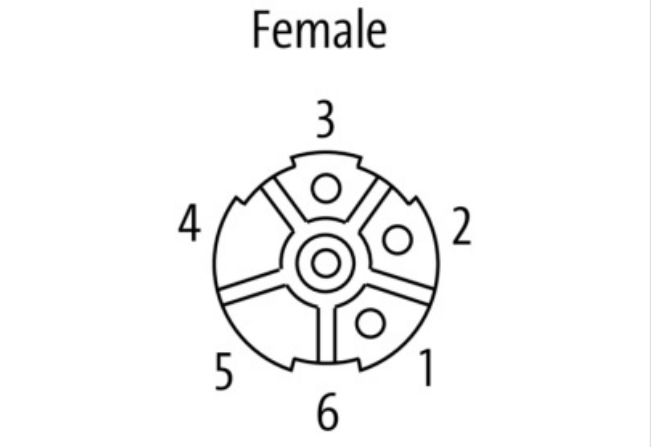
Art.No.: 7000-PS205-8651000
Weight: 1.275 kg
Country of origin: DE
Model designation: M6FX5002-5CA01-1BA0

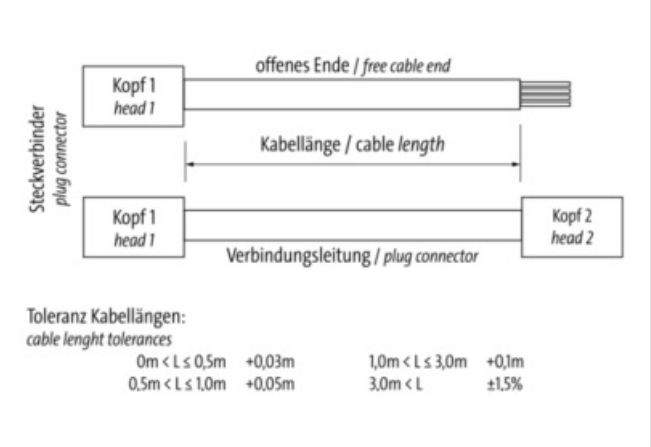
Power cable for SINAMICS S120 and Motors with M23 connection
Female straight – pre-wired terminals
M23, 6-pole
4-pole used
Shielded
Further cable lengths on request.
Plastic housings with good resistance against chemicals and oils.
The resistance to aggressive media should be individually tested for 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







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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
suitable for corrugated tube (internal Ø)	16 mm
Commercial data	
URL Webshop	https://shop.murrelektronik.com/7000-PS205-8651000
GTIN	4048879507882
EU-Customs tariff number	85444290
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	4048879507882
Packaging unit	1
Electrical data | Supply	
Operating voltage AC max.	630 V
Operating voltage DC max.	630 V
Device protection | Electrical	

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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	
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	
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)	150.000 pF/km
Electrical capacity line constant (wire - shield)	250.000 pF/km
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