M23 SERVO CABLE

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

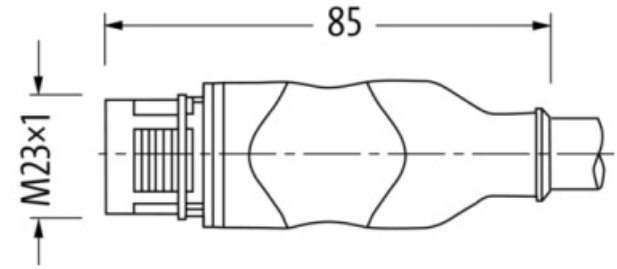
Art.No.: 7000-PS101-8210700
Weight: 1.813 kg
Country of origin: DE
Model designation: M6FX8002-5DA05-1AH0

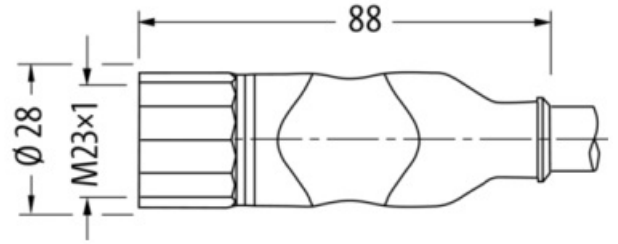
Power cable with brake wires for SINAMICS S120 and motors with M23 connection and holding brake
Female straight – male straight
M23 – M23, 6-pole
Shielded
without cable sleeves
Further cable lengths on request.
Plastic housings with good resistance against chemicals and oils.
The resistance to aggressive 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)

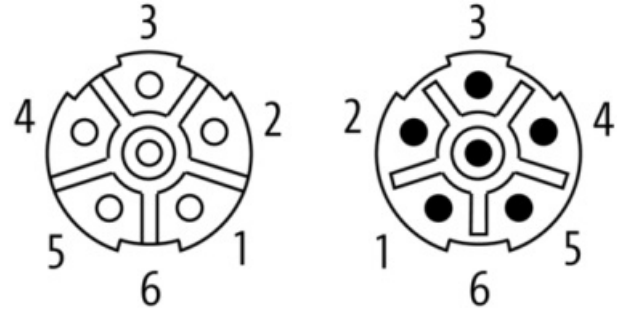
Link to Product

Illustration

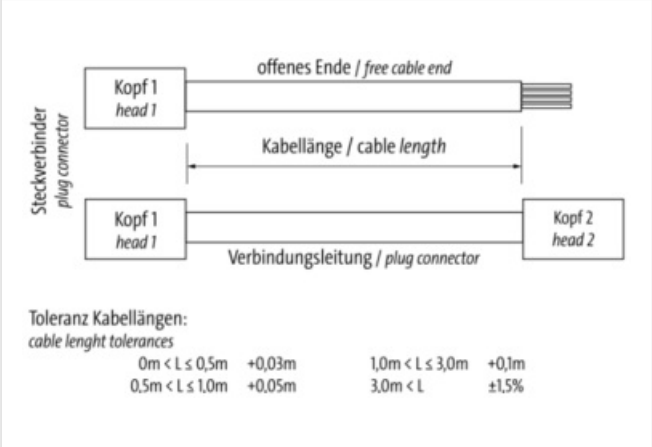








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Product may differ from Image

Cable length	7,00 m
Side 1-1	
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
Side 2-2	
Family construction form	M23
suitable for corrugated tube (internal Ø)	23 mm
Commercial data	
URL Webshop	https://shop.murrelektronik.com/7000-PS101-8210700
GTIN	4048879800389
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

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EAN	4048879800389
Packaging unit	1
Electrical data | Supply	
Operating voltage AC per power contact max.	600 V
Operating voltage DC per power contact max.	600 V
Operating voltage AC per signal contact max.	250 V
Operating voltage DC per signal contact max.	250 V
Device protection | Electrical	
Degree of protection (EN IEC 60529)	IP67, IP65
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage power contacts	4 kV
Rated surge voltage signal contacts	2 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-1	
Cable identification	821
Function cable	Hybrid, Signal, Power
Cable weigth	210 g/m
UL AWM Style	21223 / 10492
Stranding	1 × 2 wires stranded with filler
Stranding (type 2)	1 × 4 wires stranded with stranding combination with 8 filler
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Pair shielding (type)	copper braid, tinned
Pair shielding (coverage)	85 %
Banding	Fiber tape, Fleece, Foil
Filler	Yes
Wire arrangement	BK, WH, (BK W/L3/D/L-, BK U/L1/C/L+, BK V/L2, GNYE)
Shield	shielded
Material wire insulation	TPM
Amount wires	2
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)	84 × 0.15 mm
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free, silicone-free
Material wire insulation (type 3)	TPM
Amount wires (type 3)	4

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Outer diameter wire insulation (type 3)	2.4 mm ± 0.1 mm
Conductor crosssection (wire type 3)	1,5 mm²
Material conductor wire (type 3)	Stranded copper wire, bare
Core construction (wire type 3)	84 × 0.15 mm
Ingredient freeness wire insulation (type 3)	lead-free, CFC-free, halogen-free, silicone-free
Material jacket	TMPU
Outer-diameter (jacket)	11.3 mm ± 5 %
Jacket Color	orange / RAL 2003
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free, silicone-free
Material property (jacket)	low adhesion
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Pair shielding (type)	copper braid, tinned
Pair shielding (coverage)	85 %
Conductor resistance (wire)	13.7 Ω/km @ 20 °C
Conductor resistance (wire type 3)	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)	12,6 A
Current carrying capacity max. wire (type 3)	12,6 A
Current load capacity (standard)	to DIN VDE 0298-4
Electrical capacity line constant (wire - wire)	120 pF/m
Electrical capacity line constant (wire - wire) (power)	90 pF/m
Electrical capacity line constant (wire - shield)	200 pF/m
Electrical capacity line constant (wire - shield) (power)	160 pF/m
Isolation resistance	2.500 MΩ × km
Operating temperature (static)	-30 °C … 80 °C
Operating temperature (dynamic)	-30 °C … 80 °C
Operating temperature (drag chain)	-30 °C … 80 °C
Other resistances	resistant to hydrolysis
Notes	application-related testing
Bending radius (fixed)	4 × Outer diameter
Bending radius (dynamic)	7.5 × Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	50 m @ 25 °C | horizontal
Travel speed (C-track)	5 m/s @ 25 °C
Acceleration (C-track)	50 m/s² @ 25 °C
Torsion stress	± 30 °/m

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