MURR ELEKTRONIK
stay connected

M23 servo cable

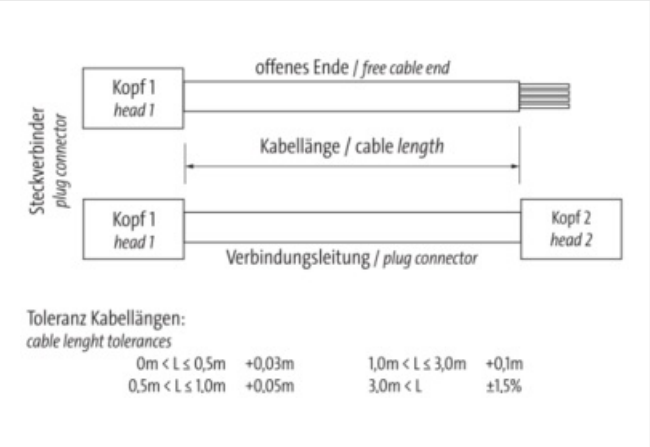
specification: 6FX8002-5CA15-1AH0

Art.No.: 7000-PS105-8570700
Weight: 1.475
Country of origin: DE
Model designation: M6FX8002-5CA15-1AH0

Power cable for SINAMICS S120 and Motors with M23 connection
Female straight – male straight
M23 – M23, 6-pole
4-pole used
shielded
without brake wires
without cable sleeves
Further cable lengths on request.
Plastic housings with good resistance against chemicals and oils.
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²)
The resistance to aggressive media should be individually tested for your application. Further details on request.

Link to Product

Illustration



Product may differ from Image

Header	
Material short text	M6FX8002-5CA15-1AH0
Cable length	7,00 m
Side 1	
Family construction form	M23
Thread	M23 x 1
Tightening torque	2 Nm
Width across flats	SW27
suitable for corrugated tube (internal Ø)	16 mm
Side 2	
Family construction form	M23
suitable for corrugated tube (internal Ø)	23 mm

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Commercial data	
URL Webshop	https://shop.murrelektronik.com/7000-PS105-8570700
GTIN	4048879569774
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	4048879569774
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
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	857
Amount stranding	1
Stranding	Wires

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Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding	Fiber tape, Fleece
Filler	yes
Cable weigth	183 g/m
Material wire insulation (type 3)	TPM
Outer diameter wire insulation (type 3)	3,1 mm
Tolerance outer diameter wire insulation (type 3)	± 0,1 mm
Ingredient freeness wire insulation (type 3)	CFC-free, silicone-free, halogen-free, lead-free
Printing colour wire insulation (type 3)	white (isolation black)
Amount wires (type 3)	4
Amount strands wire (type 3)	140
Diameter of single wires (type 3)	0,15 mm
Wire conductor cross section (type 3)	2,5 mm²
Material conductor wire (type 3)	Stranded copper wire, bare
Conductor type wire (type 3)	strand class 6
Outer-diameter (jacket)	10,2 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	TMPU
Freedom from ingredients (jacket)	CFC-free, silicone-free, halogen-free, lead-free
Material property (jacket)	low adhesion
Conductor resistance (wire type 3)	7.98 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire)	90.000 pF/km
Electrical capacity line constant (wire - wire) (power)	120.000 pF/km
Electrical capacity line constant (wire - shield)	160.000 pF/km
Electrical capacity line constant (wire - shield) (power)	200.000 pF/km
Isolation resistance	2.500 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 carrying capacity min. wire (type 3)	20,8 A
Min. operating temperature (static)	-30 °C
Max. operating temperature (static)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	80 °C
Operating temperature min. (drag chain)	-30 °C
Operating temperature max. (drag chain)	80 °C
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 °C