

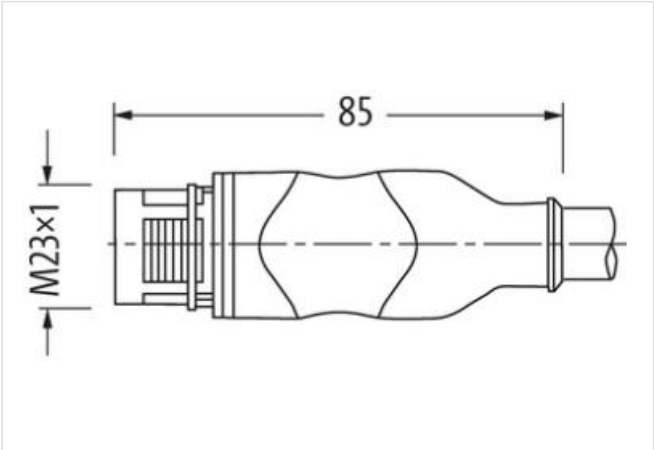
M23-servo cable

Specification: 6FX8002-5DA05-1AD0

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



Product may differ from Image

Cable length	3 m
Side 1	
Tightening torque	2 Nm
Family construction form	M23
Thread	M23 x 1

suitable for corrugated tube (internal Ø)	16 mm
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Width across flats	SW27
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Side 2

Family construction form	M23
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suitable for corrugated tube (internal Ø)	23 mm
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Commercial data

ECLASS-6.0	27279218
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ECLASS-6.1	27279218
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ECLASS-7.0	27279218
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ECLASS-8.0	27279218
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ECLASS-9.0	27060327
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ECLASS-10.1	27060311
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ECLASS-11.1	27060311
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ECLASS-12.0	27060327
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ETIM-5.0	EC001855
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customs tariff number	85444290
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GTIN	4048879497787
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Packaging unit	1
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Electrical data | Supply

Operating voltage AC per power contact max.	600 V
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Operating voltage AC per signal contact max.	250 V
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Operating voltage DC per power contact max.	600 V
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Operating voltage DC per signal contact max.	250 V
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Device protection | Electrical

Degree of protection (EN IEC 60529)	IP65, IP67
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Additional condition protection degree	inserted, screwed
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Pollution Degree	3
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Rated surge voltage power contacts	4 kV
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Rated surge voltage signal contacts	2 kV
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Material group (IEC 60664-1)	I
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Mechanical data | Material data

Coating locking	nickel plated
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Material housing	PUR
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Locking material	Brass
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Mechanical data | Mounting data

Mounting method	inserted, screwed, Shaking protection
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Environmental characteristics | Climatic

Operating temperature min.	-25 °C
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Operating temperature max.	85 °C
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Additional condition temperature range	depending on cable quality
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Installation | Cable

Cable identification	821
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Jacket Color	orange
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Type of Certificate	cURus
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STOOW style jacket	Hybrid, Signal, Power
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Amount stranding	1
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Stranding	2 wires with Filler twisted
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Amount stranding (type 2)	1
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Stranding (type 2)	4 wires with Filler around Stranding combination twisted
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Cable shielding (type)	copper braid, tinned
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Cable shielding (coverage)	85 %
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Pair shielding (type)	copper braid, tinned
Banding	Fiber tape, Fleece, Foil
Filler	yes
wire arrangement	black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)
Cable weighth	231 g/m
Material jacket	TMPU
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	11,3 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	TPM
Amount wires	2
Outer diameter insulation	2,4 mm
Outer diameter tolerance core insulation	± 5 %
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	84
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	1,5 mm ²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Material wire insulation (Power)	TPM
Outer diameter wire insulation (Power)	2,4 mm
Tolerance outer diameter wire insulation (Power)	±5 %
Ingredient freeness wire insulation (Power)	lead-free, CFC-free, halogen-free, silicone-free
Printing colour wire insulation (Power)	white (isolation black)
Amount strands wire (Power)	84
Diameter of single wires (Power)	0,15 mm
Wire conductor cross section (Power)	1,5 mm ²
Material conductor wire (Power)	Stranded copper wire, bare
Conductor type wire (Power)	strand class 6
Traversing distance (C-track)	50 m @ 25 °C horizontal
Travel speed (C-track)	4
Max. rated voltage (conductor - conductor)	1000 V
Max. rated voltage (conductor - ground)	600 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12,6 A
Electrical resistance line constant wire	13,7 Ω/km @ 20 °C
Electrical resistance coating wire (Power)	13,7 Ω/km @20 °C
AC withstand voltage (wire - wire)	4 kV @ 300 s
Electrical capacity line constant (wire - shield)	160000 pF/km
Power frequency withstand voltage (wire - jacket)	4 kV @ 300 s
AC withstand voltage (wire - shield)	4 kV @ 300 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	80 °C
Flame resistance	UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404 Good, application-related testing
Bending radius (fixed)	4 x Outer diameter
Bending radius (dynamic)	7,5 x Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Torsion stress	± 30 °/m

The information in this Product-PDF has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-02

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