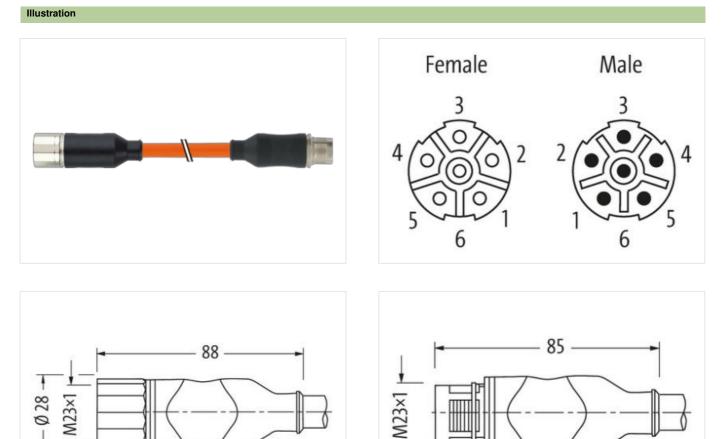


## M23-servo cable

Specification: 6FX8002-5DA15-1AH0

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 mm<sup>2</sup>), 15 A (2.5 mm<sup>2</sup>); brake cores: 5 A (1.5 mm<sup>2</sup>)

## Link to Product



Product may differ from Image

Cable length	7 m	
Side 1		
Tightening torque	2 Nm	
Family construction form	M23	
Thread	M23 x 1	

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16 mm	
SW27	
M23	
23 mm	
27279218	
27279218	
27279218	
27279218	
27060327	
27060311	
27060311	
27060327	
EC000830	
85444290	
4048879727044	
1	
600 V	
250 V	
600 V	
250 V	
IP65, IP67	
inserted, screwed	
3	
4 kV	
2 kV	
nickel plated	
PUR	
Brass	
inserted, screwed, Shaking protection	
-25 °C	
85 °C	
depending on cable quality	
Protect the connectors by suitable measures from mechanical loads, or a by the usage of cable tice	
Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be	
endangered by excessive bending forces.	
endangered by excessive bending loices.	
833	
833	
833 Hybrid, Signal, Power	
833 Hybrid, Signal, Power orange	

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Cable shielding (type)   Cable shielding (coverage)   Pair shielding (type)   Banding	4 wires with Filler around Stranding combination twisted copper braid, tinned 85 % copper braid, tinned
Cable shielding (coverage) Pair shielding (type) Banding	85 %
Pair shielding (type) Banding	
Banding	copper braid, tinned
<b>F</b> 10	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 weigth	311,3 g/m
Material jacket	TMPU
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	13 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	ТРМ
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 <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Material wire insulation (Power)	ТРМ
Outer diameter wire insulation (Power)	3,1 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 wires (Power)	4
Amount strands wire (Power)	140
Diameter of single wires (Power)	0,15 mm
Wire conductor cross section (Power)	2,5 mm <sup>2</sup>
Material conductor wire (Power)	Stranded copper wire, bare
Conductor type wire (Power)	strand class 6
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
Current carrying capacity min. wire (Power)	18,2 A
Electrical resistance line constant wire	13,7 Ω/km @ 20 °C
Electrical resistance coating wire (Power)	8 Ω/km @20 °C
	4 kV @ 300 s
	90000 pF/km
	160000 pF/km
Power frequency withstand voltage (wire - jacket)	4 kV @ 300 s
AC withstand voltage (wire - shield)	4 kV @ 300 s
Isolation resistance	2500 MΩ × km
Electrical capacity line constant (wire - shield) (power)	200000 pF/km
Electrical capacity line constant (wire - wire) (power)	120000 pF/km
AC withstand voltage power (wire - shield)	4 kV @ 300 s
Power frequency withstand voltage power (wire - jacket)	4 kV @ 300 s

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AC withstand voltage power (wire - wire)	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 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
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
Traversing distance (C-track)	50 m @ 25 °C   horizontal
Travel speed (C-track)	5 m/s @ 25 °C
Torsion stress	± 30 °/m

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