

stay connected

M23 SERVO CABLE

Specification: 6FX5002-5DN16-1BA0

Art.No.: 7000-PS412-8631000

Weight: 2.73

Country of origin: DE

Model designation: M6FX5002-5DN16-1BA0

Female straight - pre-wired terminals

M23, 6-pole

Power connector SIEMENS

shielded

Power cable for SINAMICS S120 and Motors with M23 connection

without cable sleeves

Further cable lengths on request.

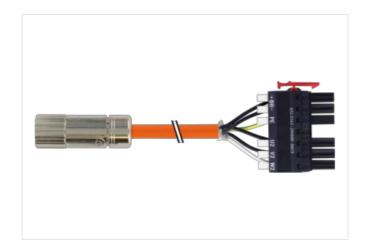
Plastic housings with good resistance against chemicals and oils.

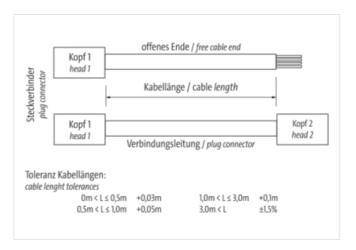
The resistance to aggressive media should be individually tested for your application. Further details on request.

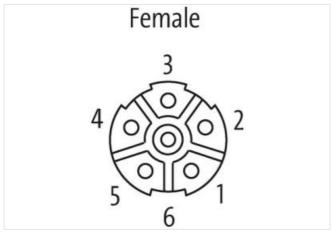
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

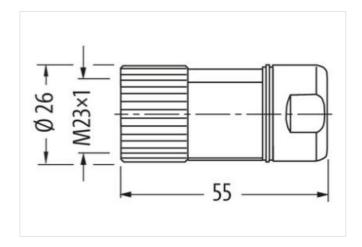
Link to Product

Illustration









Product may differ from Image

Cable length 10 m

Side 1

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: 2025-11-12



Micha arous fints	Tightening torque	2 Nm
Width across fates	Family construction form	M23
P66, IP67 P66,	Thread	M23 x 1
Commercial data ECLASS 6.0 27278218 ECLASS 7.7 27278218 ECLASS 8.0 27060311 ECLASS 8.0 27060311 ECLASS 1.1 27060311 ECLASS 1.2 27060312 ECLASS 1.1.1 27060312 ECLASS 1.1.2 27060312 ECLASS 1.2.0 E001855 ECLASS 1.2.0 E001855 Customs tarfil number 8544290 customs tarfil number 8544290 EAN 4048878681551 EAN 4048878681551 EAN 4048878681551 EAN 4048878681551 Eactifical datal Supply Use of target and	Width across flats	SW27
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Cable identification 863 Function cable Hybrid, Signal, Power Jacket Color orange Type of Certificate cURus	Installation Cable	
Function cable Hybrid, Signal, Power Jacket Color orange Type of Certificate cURus	wire arrangement	black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)
Jacket Color orange Type of Certificate cURus	Cable identification	863
Type of Certificate cURus	Function cable	Hybrid, Signal, Power
Type of Certificate cURus	Jacket Color	orange
Amount stranding 1	Type of Certificate	cURus
	Amount stranding	1



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Stranding	2 wires with Filler twisted
Amount stranding (type 2)	1
Stranding (type 2)	4 wires with Filler around Stranding combination twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
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 weigth	269,5 g/m
Material jacket	PVC
Freedom from ingredients (jacket)	lead-free, CFC-free, silicone-free
Outer-diameter (jacket)	12 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, silicone-free
Amount strands (wire)	30
Diameter of single wires	0,25 mm
Conductor crosssection (wire)	1,5 mm ²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Material wire insulation (Power)	TPM
Outer diameter wire insulation (Power)	3 mm
Tolerance outer diameter wire insulation (Power)	±5 %
Ingredient freeness wire insulation (Power)	lead-free, CFC-free, silicone-free
Printing colour wire insulation (Power)	white (isolation black)
Amount wires (Power)	4
Amount strands wire (Power)	50
Diameter of single wires (Power)	0,25 mm
Wire conductor cross section (Power)	2,5 mm ²
Material conductor wire (Power)	Stranded copper wire, bare
Conductor type wire (Power)	Strand class 5
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
AC withstand voltage (wire - wire)	2 kV @ 60 s
Electrical capacity line constant (wire - wire)	100000 pF/km
Electrical capacity line constant (wire - shield)	160000 pF/km
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
AC withstand voltage (wire - shield)	2 kV @ 60 s
Isolation resistance	10 MΩ × km
Electrical capacity line constant (wire - shield) (power)	250000 pF/km
Electrical capacity line constant (wire - wire) (power)	150000 pF/km
AC withstand voltage power (wire - shield)	4 kV @ 60 s



Power frequency withstand voltage power (wire - jacket)	4 kV @ 60 s
AC withstand voltage power (wire - wire)	4 kV @ 60 s
Min. operating temperature (static)	-25 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	60 °C
Flame resistance	UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2
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)	5 x Outer diameter
Bending radius (dynamic)	18 x Outer diameter
No. of bending cycles (C-track)	0,1 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C horizontal
Travel speed (C-track)	0,5 m/s @ 25 °C
Torsion stress	± 30 °/m