

M23 SERVO CABLE

Specification: 6FX5002-5CS01-1BK0

Power cable for SINAMICS S120 and Motors with M23 connection

Female straight - pre-wired terminals

M23, 6-pole

4-pole used

Further cable lengths on request.

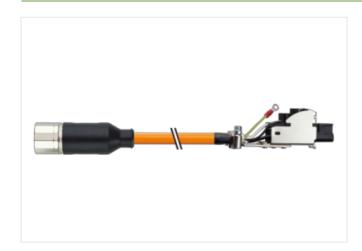
Plastic housings with good resistance against chemicals and oils.

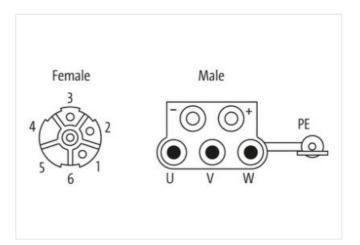
The resistance to aggressive media should be individually tested for your application. Further details on request.

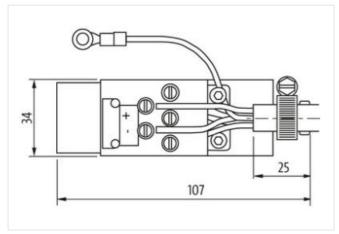
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

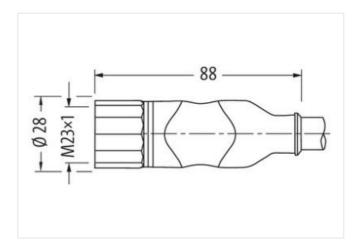
Link to Product

Illustration









Product may differ from Image

Cable length	19 m	
Side 1		
Tightening torque	2 Nm	
Family construction form	M23	
Thread	M23 x 1	
Width across flats	SW27	

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: 2024-05-07



stay connected

Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060327
ECLASS-10.1	27060327
ECLASS-10.1	27060311
ECLASS-11.1	
ECLASS-12.0 ETIM-5.0	27060327
	EC001855
customs tariff number	85444290
STIN	4048879555104
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)	IP20, IP67
· · · · · ·	3
Pollution Degree	ა
Mechanical data Material data	
Coating locking	nickel plated
Material housing	PUR
ocking material	Brass
Mechanical data Mounting data	
•	inserted, screwed, Shaking protection
Mounting method	
viounting method Environmental characteristics Climatic	
Environmental characteristics Climatic	
Environmental characteristics Climatic Operating temperature min.	-25 °C
Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range	-25 °C 85 °C
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Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Installation Cable Cable identification Jacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage)	-25 °C 85 °C depending on cable quality 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. 865 orange cURus 1 4 wires with Filler twisted copper braid, tinned 80 %
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Environmental characteristics Climatic Deperating temperature min. Deperating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Installation Cable Cable identification Jacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler Vire arrangement Cable weigth	-25 °C 85 °C depending on cable quality 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. 865 orange cURus 1 4 wires with Filler twisted copper braid, tinned 80 % Fiber tape, Fleece yes black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow 128,7 g/m
Environmental characteristics Climatic Departing temperature min. Departing temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Installation Cable Cable identification lacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler vire arrangement Cable weigth Material jacket	-25 °C 85 °C depending on cable quality 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. 865 orange cURus 1 4 wires with Filler twisted copper braid, tinned 80 % Fiber tape, Fleece yes black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow 128,7 g/m PVC
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Environmental characteristics Climatic Operating temperature min. Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Installation Cable Cable identification lacket Color Type of Certificate Amount stranding Cable shielding (type) Cable shielding (coverage) Banding Filler Vire arrangement Cable weigth Material jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	-25 °C depending on cable quality 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. 865 orange cURus 1 4 wires with Filler twisted copper braid, tinned 80 % Fiber tape, Fleece yes black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow 128,7 g/m PVC lead-free, CFC-free, silicone-free 8,1 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)	30
Diameter of single wires (Power)	0,25 mm
Wire conductor cross section (Power)	1,5 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 carrying capacity min. wire (Power)	14,4 A
Electrical resistance coating wire (Power)	13,7 Ω/km @20 °C
AC withstand voltage (wire - wire)	4 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	4 kV @ 60 s
AC withstand voltage (wire - shield)	4 kV @ 60 s
1 1 2 2 2 3 3	10.140
Isolation resistance	10 MΩ × km
Electrical capacity line constant (wire - shield) (power)	250000 pF/km
Electrical capacity line constant (wire - shield)	
Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - wire)	250000 pF/km
Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - wire) (power)	250000 pF/km 150000 pF/km
Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - wire) (power) Min. operating temperature (static)	250000 pF/km 150000 pF/km -25 °C
Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - wire) (power) Min. operating temperature (static) Max. operating temperature (fixed)	250000 pF/km 150000 pF/km -25 °C 80 °C
Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - wire) (power) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic)	250000 pF/km 150000 pF/km -25 °C 80 °C -5 °C
Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - wire) (power) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic)	250000 pF/km 150000 pF/km -25 °C 80 °C -5 °C 60 °C
Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - wire) (power) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance	250000 pF/km 150000 pF/km -25 °C 80 °C -5 °C 60 °C IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2
Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - wire) (power) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance chemical resistance	250000 pF/km 150000 pF/km -25 °C 80 °C -5 °C 60 °C IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 Good, application-related testing
Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - wire) (power) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance chemical resistance Gasoline resistance	250000 pF/km 150000 pF/km -25 °C 80 °C -5 °C 60 °C IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 Good, application-related testing Good, application-related testing
Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - wire) (power) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance chemical resistance Gasoline resistance Oil resistance	250000 pF/km 150000 pF/km -25 °C 80 °C -5 °C 60 °C IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 Good, application-related testing Good, application-related testing DIN EN 60811-404
Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - wire) (power) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance chemical resistance Gasoline resistance Oil resistance Bending radius (fixed) Bending radius (dynamic) No. of bending cycles (C-track)	250000 pF/km 150000 pF/km -25 °C 80 °C -5 °C 60 °C IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 Good, application-related testing Good, application-related testing Good, application-related testing DIN EN 60811-404 5 x Outer diameter 18 x Outer diameter 0,1 Mio. @ 25 °C
Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - wire) (power) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance chemical resistance Gasoline resistance Oil resistance Bending radius (fixed) Bending radius (dynamic)	250000 pF/km 150000 pF/km -25 °C 80 °C -5 °C 60 °C IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 Good, application-related testing Good, application-related testing Good, application-related testing DIN EN 60811-404 5 x Outer diameter
Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - wire) (power) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance chemical resistance Gasoline resistance Oil resistance Bending radius (fixed) Bending radius (dynamic) No. of bending cycles (C-track)	250000 pF/km 150000 pF/km -25 °C 80 °C -5 °C 60 °C IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 Good, application-related testing Good, application-related testing Good, application-related testing DIN EN 60811-404 5 x Outer diameter 18 x Outer diameter 0,1 Mio. @ 25 °C