

M23 SERVO CABLE

Specification: 6FX8002-5CS01-1BK0

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.

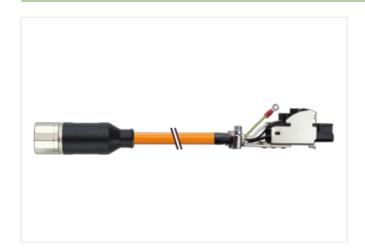
Plastic housings with good resistance against chemicals and oils.

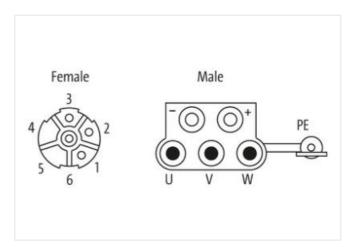
The resistance to aggressive media should be individually tested for your application. Further details on request.

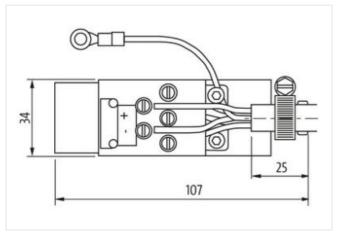
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

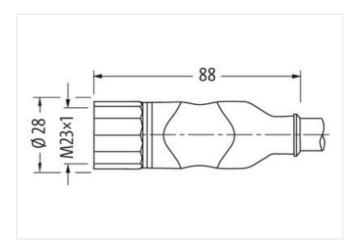
Link to Product

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.

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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	27060311	
ECLASS-11.1	27060311	
ECLASS-12.0	27060327	
ETIM-5.0	EC001855	
customs tariff number	85444290	
GTIN	4048879541039	
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	
Pollution Degree	3	
Mechanical data Material data		
Coating locking	nickel plated	
Material housing	PUR	
Locking material	Brass	
Mechanical data Mounting data		
· · · · · ·	inspired payaged Challing systemics	
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 strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.	
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.	
Installation Cable		
vire arrangement	black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow	
Cable identification		
Jable Idelillication	854	
lacket Color	854 orange cURus	
lacket Color Гуре of Certificate	orange	
Jacket Color Гуре of Certificate Amount stranding	orange cURus	
lacket Color Type of Certificate Amount stranding Stranding	orange cURus 1 4 wires with Filler twisted	
Jacket Color Type of Certificate Amount stranding Stranding Cable shielding (type)	orange cURus 1	
lacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage)	orange cURus 1 4 wires with Filler twisted copper braid, tinned	
Jacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding	orange cURus 1 4 wires with Filler twisted copper braid, tinned 85 %	
Jacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler	orange cURus 1 4 wires with Filler twisted copper braid, tinned 85 % Fiber tape, Fleece yes	
Jacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler vire arrangement	orange cURus 1 4 wires with Filler twisted copper braid, tinned 85 % Fiber tape, Fleece	
Jacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler wire arrangement Cable weigth	orange cURus 1 4 wires with Filler twisted copper braid, tinned 85 % Fiber tape, Fleece yes black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow	
Jacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler wire arrangement Cable weigth Material jacket	orange cURus 1 4 wires with Filler twisted copper braid, tinned 85 % Fiber tape, Fleece yes black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow 141,9 g/m TMPU	
Jacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler vire arrangement Cable weigth Material jacket Freedom from ingredients (jacket)	orange cURus 1 4 wires with Filler twisted copper braid, tinned 85 % Fiber tape, Fleece yes black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow 141,9 g/m TMPU lead-free, CFC-free, halogen-free, silicone-free	
Jacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler wire arrangement Cable weigth Material jacket Freedom from ingredients (jacket) Duter-diameter (jacket)	orange cURus 1 4 wires with Filler twisted copper braid, tinned 85 % Fiber tape, Fleece yes black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow 141,9 g/m TMPU lead-free, CFC-free, halogen-free, silicone-free 8,6 mm	
Jacket Color Type of Certificate Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler wire arrangement Cable weigth Material jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation (Power)	orange cURus 1 4 wires with Filler twisted copper braid, tinned 85 % Fiber tape, Fleece yes black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow 141,9 g/m TMPU lead-free, CFC-free, halogen-free, silicone-free	

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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)	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
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 @ 300 s
Electrical capacity line constant (wire - wire)	90000 pF/km
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
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
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 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)	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