

## **M23 SERVO CABLE**

Specification: 6FX8002-5DS01-1BE0

Power cable with brake wires for SINAMICS S120 and motors with M23 connection and holding brake Female straight - pre-wired terminals

M23, 6-pole

shielded

without cable sleeves

Further cable lengths on request.

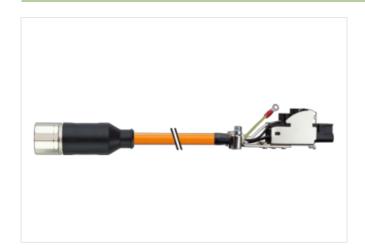
Plastic housings with good resistance against chemicals and oils.

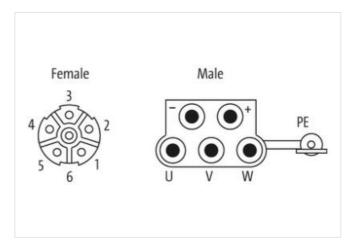
The resistance to aggressive media should be individually tested for your application. Further details on request.

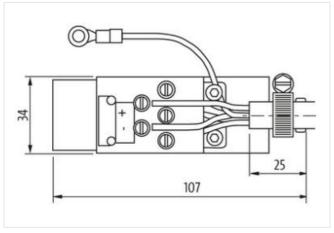
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

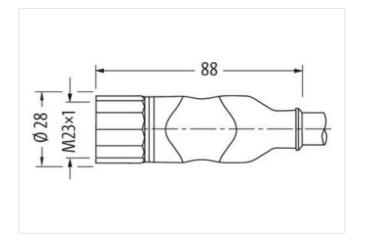
## **Link to Product**

## Illustration









Product may differ from Image

Cable length	14 m
Side 1	
Tightening torque	2 Nm
Family construction form	M23
Thread	M23 x 1



suitable for corrugated tube (internal Ø)	16 mm
Width across flats	SW27
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	4048879479257
Packaging unit	1
	<u>'</u>
Electrical data   Supply	
Operating voltage AC per power contact max.	600 V
Operating voltage AC per signal contact max.	250 V
Operating voltage DC per power contact max.	600 V
Operating voltage DC per signal contact max.	250 V
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP20, IP67
Pollution Degree	3
Rated surge voltage power contacts	4 kV
Rated surge voltage signal contacts	2 kV
Material group (IEC 60664-1)	
Mechanical data   Material data	
Coating locking	nickel plated
Material housing	PUR
Locking material	Brass
Mechanical data   Mounting data	
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
Installation   Cable	
Cable identification	821
Jacket Color	orange
Type of Certificate	cURus
STOOW style jacket	Hybrid, Signal, Power
Amount stranding	1
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)



## stay connected

No. of bending cycles (C-track)	10 Mio. @ 25 °C
Cable weigth	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 insulation	±5%
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free, silicone-free
	84
Amount strands (wire)	
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	1,5 mm²
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 wires (Power)	4
Amount strands wire (Power)	84
Diameter of single wires (Power)	0,15 mm
Wire conductor cross section (Power)	1,5 mm <sup>2</sup>
Material conductor wire (Power)	Stranded copper wire, bare
Conductor type wire (Power)	strand class 6
Traversing distance (C-track)	50 m @ 25 °C   horizontal
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)	
Libothoal resistance coating wife (Fower)	13,7 Ω/km @20 °C
Max. rated voltage power (conductor - ground)	13,7 Ω/km @20 °C 600 V
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Max. rated voltage power (conductor - ground) Max. rated voltage power (conductor -	600 V
Max. rated voltage power (conductor - ground)  Max. rated voltage power (conductor - conductor)  Electrical capacity line constant (wire - shield)	600 V 1000 V
Max. rated voltage power (conductor - ground) Max. rated voltage power (conductor - conductor)  Electrical capacity line constant (wire - shield) (power)	600 V 1000 V 160000 pF/km
Max. rated voltage power (conductor - ground)  Max. rated voltage power (conductor - conductor)  Electrical capacity line constant (wire - shield) (power)  AC withstand voltage power (wire - shield)  Power frequency withstand voltage power	600 V  1000 V  160000 pF/km  4 kV @ 300 s
Max. rated voltage power (conductor - ground)  Max. rated voltage power (conductor - conductor)  Electrical capacity line constant (wire - shield) (power)  AC withstand voltage power (wire - shield)  Power frequency withstand voltage power (wire - jacket)	600 V  1000 V  160000 pF/km  4 kV @ 300 s  4 kV @ 300 s
Max. rated voltage power (conductor - ground)  Max. rated voltage power (conductor - conductor)  Electrical capacity line constant (wire - shield) (power)  AC withstand voltage power (wire - shield)  Power frequency withstand voltage power (wire - jacket)  AC withstand voltage power (wire - wire)	600 V  1000 V  160000 pF/km  4 kV @ 300 s  4 kV @ 300 s
Max. rated voltage power (conductor - ground) Max. rated voltage power (conductor - conductor) Electrical capacity line constant (wire - shield) (power)  AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket) AC withstand voltage power (wire - wire) Min. operating temperature (static)	600 V  1000 V  160000 pF/km  4 kV @ 300 s  4 kV @ 300 s  4 kV @ 300 s
Max. rated voltage power (conductor - ground)  Max. rated voltage power (conductor - conductor)  Electrical capacity line constant (wire - shield) (power)  AC withstand voltage power (wire - shield)  Power frequency withstand voltage power (wire - jacket)  AC withstand voltage power (wire - wire)  Min. operating temperature (static)  Max. operating temperature (fixed)	600 V  1000 V  160000 pF/km  4 kV @ 300 s  4 kV @ 300 s  -30 °C  80 °C
Max. rated voltage power (conductor - ground)  Max. rated voltage power (conductor - conductor)  Electrical capacity line constant (wire - shield) (power)  AC withstand voltage power (wire - shield)  Power frequency withstand voltage power (wire - jacket)  AC withstand voltage power (wire - wire)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)	600 V  1000 V  160000 pF/km  4 kV @ 300 s  4 kV @ 300 s  4 kV @ 300 s  -30 °C  80 °C
Max. rated voltage power (conductor - ground) Max. rated voltage power (conductor - conductor)  Electrical capacity line constant (wire - shield) (power)  AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket)  AC withstand voltage power (wire - wire) Min. operating temperature (static) Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)	600 V  1000 V  160000 pF/km  4 kV @ 300 s  4 kV @ 300 s  4 kV @ 300 s  -30 °C  80 °C
Max. rated voltage power (conductor - ground) Max. rated voltage power (conductor - conductor)  Electrical capacity line constant (wire - shield) (power)  AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket)  AC withstand voltage power (wire - wire)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Flame resistance	600 V  1000 V  160000 pF/km  4 kV @ 300 s  4 kV @ 300 s  4 kV @ 300 s  -30 °C  80 °C  -30 °C  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
Max. rated voltage power (conductor - ground) Max. rated voltage power (conductor - conductor) Electrical capacity line constant (wire - shield) (power)  AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket)  AC withstand voltage power (wire - wire) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance chemical resistance	600 V  1000 V  160000 pF/km  4 kV @ 300 s  4 kV @ 300 s  4 kV @ 300 s  -30 °C  80 °C  -30 °C  80 °C  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  Good, application-related testing
Max. rated voltage power (conductor - ground) Max. rated voltage power (conductor - conductor)  Electrical capacity line constant (wire - shield) (power)  AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket)  AC withstand voltage power (wire - wire)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Flame resistance chemical resistance  Gasoline resistance  Oil resistance	600 V  1000 V  160000 pF/km  4 kV @ 300 s  4 kV @ 300 s  4 kV @ 300 s  -30 °C  80 °C  -30 °C  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  Good, application-related testing  Good, application-related testing
Max. rated voltage power (conductor - ground) Max. rated voltage power (conductor - conductor) Electrical capacity line constant (wire - shield) (power)  AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket) AC withstand voltage power (wire - wire) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance chemical resistance Gasoline resistance	600 V  1000 V  160000 pF/km  4 kV @ 300 s  4 kV @ 300 s  4 kV @ 300 s  -30 °C  80 °C  -30 °C  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  Good, application-related testing  Good, application-related testing  DIN EN 60811-404   Good, application-related testing
Max. rated voltage power (conductor - ground) Max. rated voltage power (conductor - conductor)  Electrical capacity line constant (wire - shield) (power)  AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket)  AC withstand voltage power (wire - wire)  Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Flame resistance chemical resistance Gasoline resistance  Gil resistance  Bending radius (fixed)	600 V  1000 V  160000 pF/km  4 kV @ 300 s  4 kV @ 300 s  4 kV @ 300 s  -30 °C  80 °C  -30 °C  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  Good, application-related testing  Good, application-related testing  DIN EN 60811-404   Good, application-related testing  4 x Outer diameter