

## M23-servo cable

Specification: 6FX8002-5DA05-1AE0

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.

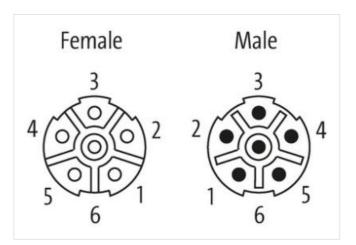
The resistance to aggressive media should be individually tested for your application. Further details on request.

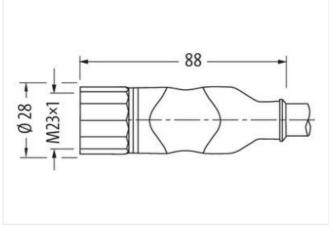
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

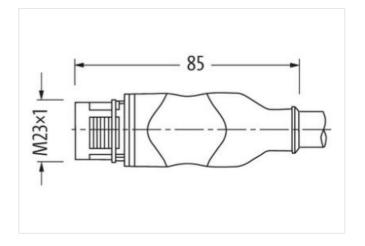
## **Link to Product**

## Illustration









Product may differ from Image

Cable length	4 m	
Side 1		
Tightening torque	2 Nm	
Family construction form	M23	
Thread	M23 x 1	



stay connected

Side 2         Family construction from M23 at man actualized for corrugated tube (internal 0)         M23 at man actualized for corrugated tube (internal 0)         23 mm           Commercial data         Commercial data         27279218           ECLASS 4.0         27279218         27279218           ECLASS 1.1         27000311         27279218           ECLASS 1.1         27000311         27279218           ECLASS 1.0         2700027         27279218           ECLASS 1.0         27000311         27279218           ECLASS 1.0         27000311         27279218           ECLASS 1.0         2700027         27279218           ECLASS 1.0         2700027         27279218           ECLASS 2.0         27000027         27279218           <	suitable for corrugated tube (internal Ø)	16 mm
Family construction form         M23           Suitable for corrugated true (internal 0)         23 mm           Commercial data         Commercial data           ECLASS-6.0         27279218           ECLASS-7.7         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060317           ECLASS-9.10.1         27060311           ECLASS-9.10.2         27060311           ECLASS-12.0         27060327           ETIM-5.0         ED001855           ELIASS-9.10.1         27060327           ETIM-5.0         ED001855           ETIM-5.0         ED001855           CINN         40484873498744           Percentaging unit         1           Electrical data   Supply         V           Operating voltage AC per power contact max.         600 V           Operating voltage AC per power contact max.         600 V           Operating voltage AC per power contact max.         600 V           Operating voltage AC per power contact max.         600 V           Operating voltage AC per power contact max.         600 V           Operating voltage AC per power contact max.         600 V           Operating protection (EN IEC 08029)         165. IPS           Additi	Width across flats	SW27
Family construction form         M23           Suitable for corrugated true (internal 0)         23 mm           Commercial data         Commercial data           ECLASS-6.0         27279218           ECLASS-7.7         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060317           ECLASS-9.10.1         27060311           ECLASS-9.10.2         27060311           ECLASS-12.0         27060327           ETIM-5.0         ED001855           ELIASS-9.10.1         27060327           ETIM-5.0         ED001855           ETIM-5.0         ED001855           CINN         40484873498744           Percentaging unit         1           Electrical data   Supply         V           Operating voltage AC per power contact max.         600 V           Operating voltage AC per power contact max.         600 V           Operating voltage AC per power contact max.         600 V           Operating voltage AC per power contact max.         600 V           Operating voltage AC per power contact max.         600 V           Operating voltage AC per power contact max.         600 V           Operating protection (EN IEC 08029)         165. IPS           Additi	Side 2	
Sumble for corrugated tube (internal O)		M22
Commercial data         ECLASS 9.0         2779218           ECLASS 9.0         2779218           ECLASS 7.0         2779218           ECLASS 9.0         2779218           ECLASS 9.0         2709037           ECLASS 9.0         27090311           ECLASS 9.1.1         27090311           ECLASS 9.1.1         27090327           ECHAS 9.1.1         27090327           ETIM 9.0         ECOT 955           COUNTY 9.0         ECOT 950           COUNTY 9.0		
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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  Cable identification 821  Function cable Hybrid, Signal, Power  Jacket Color orange  Type of Certificate cURus  Amount stranding 1	Operating temperature max.	85 °C
Note on strain relief 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.  Installation   Cable  Cable identification  821  Function cable  Hybrid, Signal, Power  Jacket Color  orange  Type of Certificate  CURus  Amount stranding	Additional condition temperature range	depending on cable quality
Note on strain relief 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.  Installation   Cable  Cable identification  821  Function cable  Hybrid, Signal, Power  Jacket Color  orange  Type of Certificate  CURus  Amount stranding	Important installation notes	
Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 821  Function cable Hybrid, Signal, Power  Jacket Color orange  Type of Certificate cURus  Amount stranding 1	•	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties
Cable identification 821 Function cable Hybrid, Signal, Power  Jacket Color orange  Type of Certificate cURus  Amount stranding 1	Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Cable identification 821 Function cable Hybrid, Signal, Power  Jacket Color orange  Type of Certificate cURus  Amount stranding 1	Installation   Cable	
Function cable Hybrid, Signal, Power  Jacket Color orange  Type of Certificate cURus  Amount stranding 1		921
Jacket Color orange Type of Certificate cURus  Amount stranding 1		
Type of Certificate cURus  Amount stranding 1		
Amount stranding 1		<del>_</del>
Amount straining	<del>- *</del>	
Stranding 2 wires with Filler twisted		
	Stranding	2 wires with Filler twisted

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## stay connected

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	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 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)	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
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)	12,6 A
Electrical resistance line constant wire	13,7 Ω/km @ 20 °C
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)	120000 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)	160000 pF/km
Electrical capacity line constant (wire - wire) (power)	90000 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 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
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