

M23 SERVO CABLE

Specification: 6FX8002-5DS01-1DA0

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.

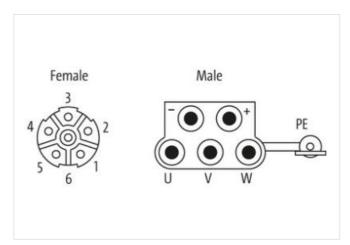
The resistance to aggressive media should be individually tested for your application. Further details on request.

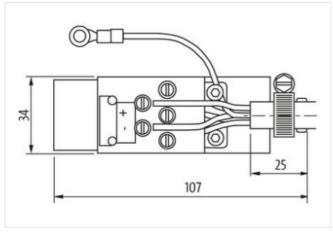
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

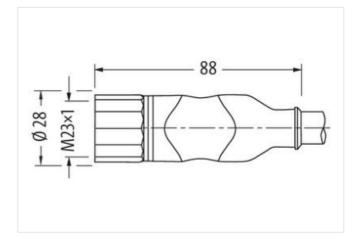
Link to Product

Illustration









Product may differ from Image

Cable length	30 m
Side 1	
Tightening torque	2 Nm
Family construction form	M23
Thread	M23 x 1



stay connected

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	4048879564878
Packaging unit	1
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)	I
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
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
Stranding	2 wires with Filler twisted
	1
Amount stranding (type 2)	
Stranding (type 2)	4 wires with Filler around Stranding combination twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %



stay connected

copper braid, tinned
Fiber tape, Fleece, Foil
yes
black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)
231 g/m
TMPU
lead-free, CFC-free, halogen-free, silicone-free
11,3 mm
±5%
TPM
2
2,4 mm
±5%
lead-free, CFC-free, halogen-free, silicone-free
84
0,15 mm
1.5 mm ²
Stranded copper wire, bare
strand class 6
TPM
2,4 mm
±5 %
lead-free, CFC-free, halogen-free, silicone-free
white (isolation black)
4
84
0,15 mm
1,5 mm ²
Stranded copper wire, bare
strand class 6
1000 V
600 V
to DIN VDE 0298-4
12,6 A
12,6 A
13,7 Ω/km @ 20 °C
13,7 Ω/km @20 °C
4 kV @ 300 s
120000 pF/km
160000 pF/km
4 kV @ 300 s
4 kV @ 300 s
2500 MΩ × km
160000 pF/km
90000 pF/km
4 kV @ 300 s
4 kV @ 300 s
4 kV @ 300 s
4 kV @ 300 s -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