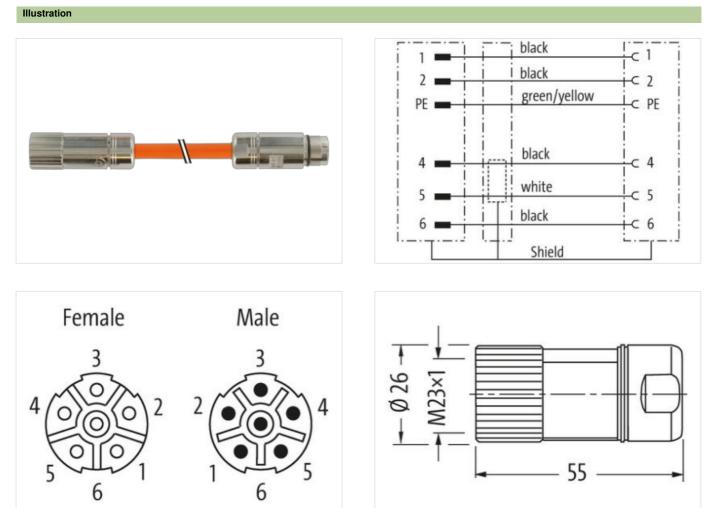


M23 SERVO CABLE

Specification: 6FX8002-5DN05-1AE0

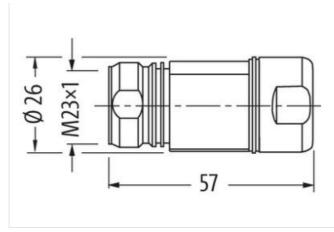
Power cable with brake wires for SINAMICS S120 and motors with M23 connection and holding brake Female straight – male straight M23 – M23, 6-pole shielded without cable sleeves Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive 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



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Product may differ from Image

Cable length	4 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	
Side 2		
Family construction form	M23	
suitable for corrugated tube (internal \emptyset)	23 mm	
Commercial data		
ECLASS-6.0	27279218	
ECLASS-7.0	27279218	
ECLASS-8.0	27279218	
ECLASS-9.0	27060311	
ECLASS-10.1	27060311	
ECLASS-11.1	27060311	
ECLASS-12.0	27060327	
ETIM-5.0	EC001855	
customs tariff number	85444290	
GTIN	4048879883580	
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)	IP65, IP67	
Additional condition protection degree	inserted, screwed	
Pollution Degree	3	
Rated surge voltage	6 kV	
Material group (IEC 60664-1)	1	
Mechanical data Material data		
Coating locking	nickel plated	
Material housing	PUR	
Locking material	Brass	
Mechanical data Mounting data		

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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			
wire arrangement	black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow)		
Cable identification	821		
Function cable	Hybrid, Signal, Power		
Jacket Color	orange		
Type of Certificate	cURus		
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)		
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 ²		
Material conductor wire	Stranded copper wire, bare		
Conductor type (wire)	strand class 6		
Material wire insulation (Power)	ТРМ		
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 ²		
Material conductor wire (Power)	Stranded copper wire, bare		
Conductor type wire (Power)	strand class 6		
Max. rated voltage (conductor - conductor)	1000 V		
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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
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

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