

M23 SERVO CABLE

Specification: 6FX8002-5DN06-1BA0

Art.No.: 7000-PS412-8211000

Weight: 2.378 kg

Country of origin: DE

Model designation: M6FX8002-5DN06-1BA0

Female straight – pre-wired terminals

M23, 6-pole

Power connector SIEMENS

Shielded

Power cable for SINAMICS S120 and Motors with M23 connection

without cable sleeves

Further cable lengths on request.

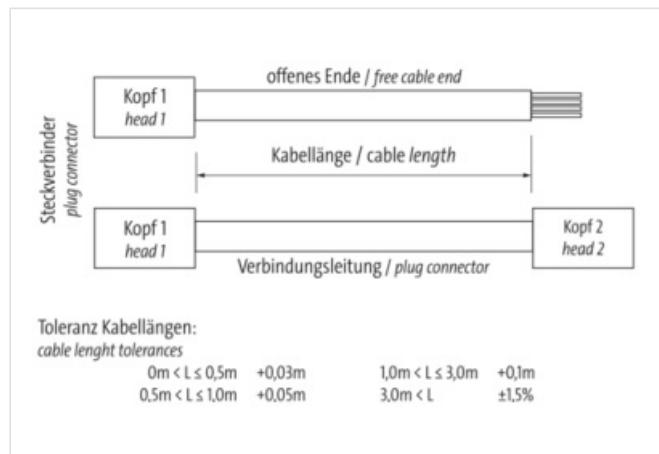
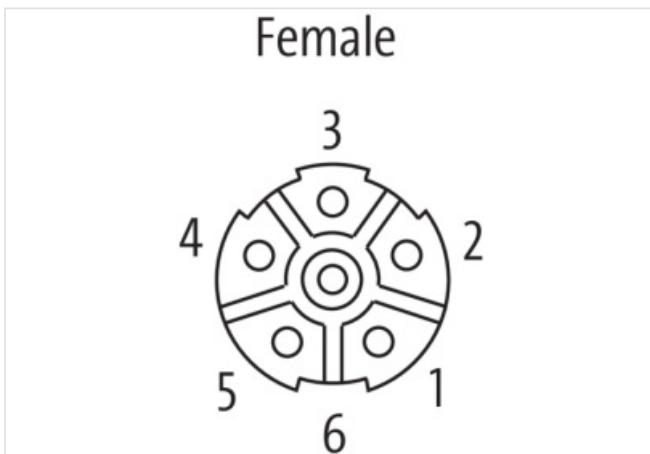
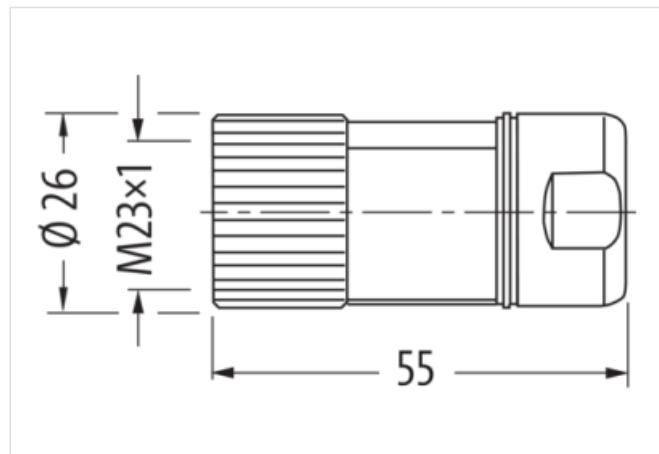
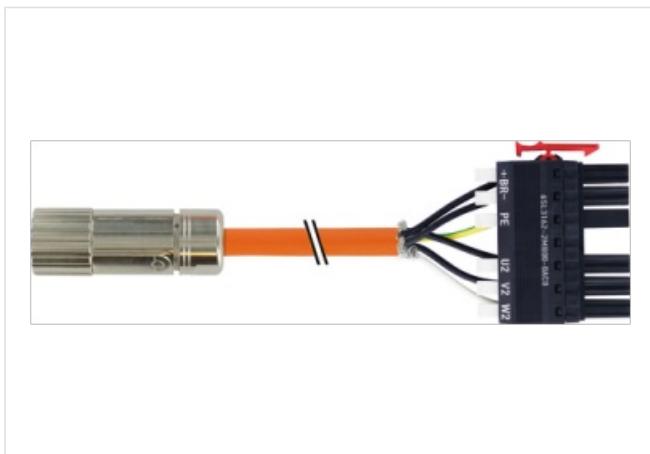
Plastic housings with good resistance against chemicals and oils.

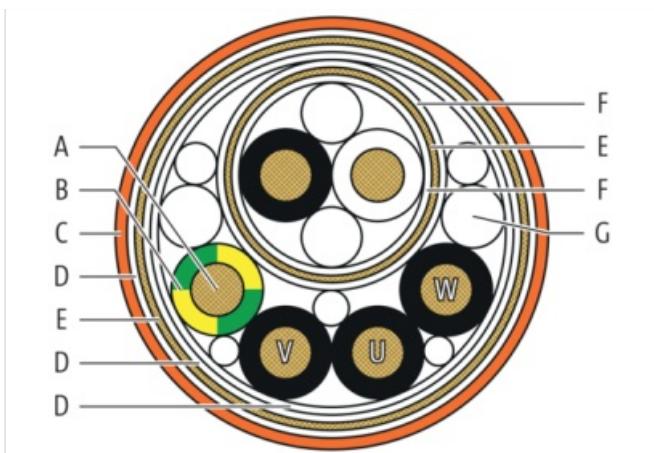
The resistance to aggressive media should be individually tested for your application. Further details on request.

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



Header

Material short text	M6FX8002-5DN06-1BA0
---------------------	---------------------

Cable length	10,00 m
--------------	---------

Side 1

Family construction form	M23
--------------------------	-----

Threaded hole	M23 x 1
---------------	---------

Tightening torque	2 Nm
-------------------	------

Width across flats	SW27
--------------------	------

Degree of protection (EN IEC 60529)	IP66, IP67
-------------------------------------	------------

Commercial data

URL Webshop	https://shop.murrelektronik.com/7000-PS412-8211000
-------------	---

GTIN	4048879681520
------	---------------

ECLASS-6.0	27279218
------------	----------

ECLASS-6.1	27279218
------------	----------

ECLASS-7.0	27279218
------------	----------

ECLASS-7.1	27279218
------------	----------

ECLASS-8.0	27279218
------------	----------

ECLASS-8.1	27279218
------------	----------

ECLASS-9.0	27060327
------------	----------

ECLASS-9.1	27060311
------------	----------

ECLASS-10.0.1	27060311
---------------	----------

ECLASS-10.1	27060311
-------------	----------

ECLASS-11.0	27060311
-------------	----------

ECLASS-11.1	27060311
-------------	----------

ECLASS-12.0	27060327
-------------	----------

ECLASS-13.0	27060311
-------------	----------

ECLASS-14.0	27060311
-------------	----------

ETIM-5.0	EC001855
----------	----------

ETIM-6.0	EC001855
----------	----------

ETIM-7.0	EC001855
----------	----------

ETIM-8.0	EC001855
----------	----------

customs tariff number	85444290
-----------------------	----------

EAN	4048879681520
-----	---------------

Packaging unit	1
customs tariff number	85444290
EAN	4048879681520
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	630 V
Operating voltage DC max.	630 V
Device protection Electrical	
Pollution Degree	3
Rated surge voltage	6 kV
Material group (IEC 60664-1)	I
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
Material housing	Zinc die-casting
Coating housing	nickel plated
Locking material	Brass
Coating locking	nickel plated
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 bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Installation Cable	
Cable identification	821
Function cable	Hybrid, Signal, Power
Amount stranding	1
Stranding	Wires
Amount stranding (type 2)	1
Stranding (type 2)	Wires
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Pair shielding (type)	copper braid, tinned
Pair shielding (coverage)	85 %
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 weight	210 g/m
Material wire insulation	TPM
Amount wires	2
Outer diameter insulation	2,4 mm
Outer diameter tolerance core insulation	± 0,1 mm
Ingredient freeness wire insulation	CFC-free, silicone-free, halogen-free, lead-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 (type 3)	TPM
Outer diameter wire insulation (type 3)	2,4 mm
Tolerance outer diameter wire insulation (type 3)	± 0,1 mm
Ingredient freeness wire insulation (type 3)	CFC-free, silicone-free, halogen-free, lead-free
Printing colour wire insulation (type 3)	white (isolation black)
Amount wires (type 3)	4
Amount strands wire (type 3)	84
Diameter of single wires (type 3)	0,15 mm
Wire conductor cross section (type 3)	1,5 mm ²
Material conductor wire (type 3)	Stranded copper wire, bare
Conductor type wire (type 3)	strand class 6
Outer-diameter (jacket)	11,3 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	TMPU
Freedom from ingredients (jacket)	CFC-free, silicone-free, halogen-free, lead-free
Material property (jacket)	low adhesion
Conductor resistance (wire)	13.7 Ω/km @ 20 °C
Conductor resistance (wire type 3)	13.7 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire)	120.000 pF/km
Electrical capacity line constant (wire - wire) (power)	90.000 pF/km
Electrical capacity line constant (wire - shield)	160.000 pF/km
Electrical capacity line constant (wire - shield) (power)	160.000 pF/km
Isolation resistance	2.500 MΩ × km
Max. rated voltage (conductor - ground)	600 V
Max. rated voltage (conductor - conductor)	1.000 V
Withstand voltage (wire - wire)	4 kV @ 300 s
Withstand voltage (wire - jacket)	4 kV @ 300 s
Withstand voltage (wire - shield)	4 kV @ 300 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12,6 A
Current carrying capacity min. wire (type 3)	12,6 A
Operating temperature min. (static)	-30 °C
Operating temperature max. (static)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	80 °C
Operating temperature min. (drag chain)	-30 °C
Operating temperature max. (drag chain)	80 °C
Bending radius (fixed)	4 × Outer diameter
Bending radius (dynamic)	7.5 × 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
Acceleration (C-track)	50 m/s ² @ 25 °C
Torsion stress	30 °C