

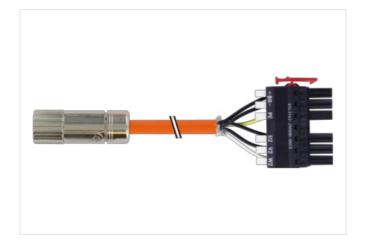
## M23 SERVO CABLE

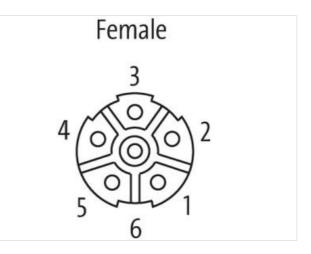
Specification: 6FX8002-5DS16-1BC0

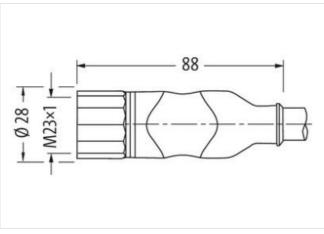
Female straight – pre-wired terminals M23, 6-pole shielded Power connector SIEMENS Power cable with brake wires for SINAMICS S120 and motors with M23 connection and holding brake without cable sleeves Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Power cores: 12 A (1.5 mm<sup>2</sup>), 15 A (2.5 mm<sup>2</sup>); brake cores: 5 A (1.5 mm<sup>2</sup>)

## Link to Product

## Illustration







Product may differ from Image

Cable length	12 m	
Side 1		
Tightening torque	2 Nm	
Family construction form	M23	
Thread	M23 x 1	
mation in this Product-PDF has been compile	h with the utmost care	

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suitable for corrugated tube (internal Ø)	16 mm
Width across flats	SW27
Side 2	
Family construction form	M23
suitable for corrugated tube (internal Ø)	23 mm
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	EC000830
customs tariff number	85444290
GTIN	4048879729864
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)	IP65, IP67
Additional condition protection degree	inserted, screwed
Additional condition protection degree Pollution Degree	inserted, screwed 3
Pollution Degree	3
Pollution Degree Rated surge voltage power contacts	3 4 kV
Pollution Degree Rated surge voltage power contacts Rated surge voltage signal contacts	3 4 kV 2 kV
Pollution Degree Rated surge voltage power contacts Rated surge voltage signal contacts Material group (IEC 60664-1) Mechanical data   Material data	3 4 kV 2 kV I
Pollution Degree Rated surge voltage power contacts Rated surge voltage signal contacts Material group (IEC 60664-1) Mechanical data   Material data Coating locking	3 4 kV 2 kV
Pollution Degree Rated surge voltage power contacts Rated surge voltage signal contacts Material group (IEC 60664-1) Mechanical data   Material data Coating locking Material gasket	3 4 kV 2 kV I nickel plated
Pollution Degree Rated surge voltage power contacts Rated surge voltage signal contacts Material group (IEC 60664-1) Mechanical data   Material data Coating locking	3 4 kV 2 kV I nickel plated FKM
Pollution Degree Rated surge voltage power contacts Rated surge voltage signal contacts Material group (IEC 60664-1) Mechanical data   Material data Coating locking Material gasket Material housing Locking material	3 4 kV 2 kV I nickel plated FKM PUR
Pollution Degree         Rated surge voltage power contacts         Rated surge voltage signal contacts         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Material gasket         Material housing         Locking material         Mechanical data   Mounting data	3 4 kV 2 kV 1 nickel plated FKM PUR Brass
Pollution Degree Rated surge voltage power contacts Rated surge voltage signal contacts Material group (IEC 60664-1) Mechanical data   Material data Coating locking Material gasket Material housing Locking material	3 4 kV 2 kV I nickel plated FKM PUR
Pollution Degree         Rated surge voltage power contacts         Rated surge voltage signal contacts         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Material gasket         Material housing         Locking material         Mechanical data   Mounting data         Mounting method	3 4 kV 2 kV 1 nickel plated FKM PUR Brass
Pollution Degree         Rated surge voltage power contacts         Rated surge voltage signal contacts         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Material gasket         Material housing         Locking material         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic	3 4 kV 2 kV 1 I nickel plated FKM PUR Brass inserted, screwed, Shaking protection
Pollution Degree         Rated surge voltage power contacts         Rated surge voltage signal contacts         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Material gasket         Material housing         Locking material         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.	3 4 kV 2 kV 1 nickel plated FKM PUR Brass inserted, screwed, Shaking protection -25 °C
Pollution Degree         Rated surge voltage power contacts         Rated surge voltage signal contacts         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Material gasket         Material housing         Locking material         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.	3 4 kV 2 kV 1 nickel plated FKM PUR Brass inserted, screwed, Shaking protection -25 °C 85 °C
Pollution Degree         Rated surge voltage power contacts         Rated surge voltage signal contacts         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Material gasket         Material housing         Locking material         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Additional condition temperature range         Important installation notes	3 4 kV 2 kV 1 nickel plated FKM PUR Brass inserted, screwed, Shaking protection -25 °C 85 °C depending on cable quality
Pollution Degree         Rated surge voltage power contacts         Rated surge voltage signal contacts         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Material gasket         Material housing         Locking material         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Additional condition temperature range	3 4 kV 2 kV 1 nickel plated FKM PUR Brass inserted, screwed, Shaking protection -25 °C 85 °C
Pollution Degree         Rated surge voltage power contacts         Rated surge voltage signal contacts         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Material gasket         Material housing         Locking material         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Additional condition temperature range         Important installation notes         Note on strain relief	3         4 kV         2 kV         1         nickel plated         FKM         PUR         Brass         inserted, screwed, Shaking protection         -25 °C         85 °C         depending on cable quality         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
Pollution Degree         Rated surge voltage power contacts         Rated surge voltage signal contacts         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Material gasket         Material housing         Locking material         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius         Installation   Cable	3         4 kV         2 kV         1         nickel plated         FKM         PUR         Brass         inserted, screwed, Shaking protection         -25 °C         85 °C         depending on cable quality         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.
Pollution Degree         Rated surge voltage power contacts         Rated surge voltage signal contacts         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Material gasket         Material housing         Locking material         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius         Installation   Cable         Cable identification	3         4 kV         2 kV         1         nickel plated         FKM         PUR         Brass
Pollution Degree         Rated surge voltage power contacts         Rated surge voltage signal contacts         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Material gasket         Material housing         Locking material         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius         Installation   Cable         Cable identification         Function cable	3         4 kV         2 kV         1         nickel plated         FKM         PUR         Brass         inserted, screwed, Shaking protection         -25 °C         85 °C         depending on cable quality         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.         833         Hybrid, Signal, Power
Pollution Degree         Rated surge voltage power contacts         Rated surge voltage signal contacts         Material group (IEC 60664-1)         Mechanical data   Material data         Coating locking         Material gasket         Material housing         Locking material         Mechanical data   Mounting data         Mounting method         Environmental characteristics   Climatic         Operating temperature min.         Operating temperature max.         Additional condition temperature range         Important installation notes         Note on strain relief         Note on bending radius         Installation   Cable         Cable identification	3         4 kV         2 kV         1         nickel plated         FKM         PUR         Brass

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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	311,3 g/m
Material jacket	TMPU
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	13 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	ТРМ
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)	ТРМ
Outer diameter wire insulation (Power)	3,1 mm
Tolerance outer diameter wire insulation	±5 %
(Power)	
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)	140
Diameter of single wires (Power)	0,15 mm
Wire conductor cross section (Power)	2,5 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)	18,2 A
Electrical resistance line constant wire	13,7 Ω/km @ 20 °C
Electrical resistance coating wire (Power)	8 Ω/km @20 °C
AC withstand voltage (wire - wire)	4 kV @ 300 s
Electrical capacity line constant (wire - wire)	90000 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)	200000 pF/km
Electrical capacity line constant (wire - wire) (power)	120000 pF/km

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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)	00 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	0° C
Flame resistance	UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
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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