

M23 SERVO CABLE

Specification: 6FX8002-5DS11-1AE5

Art.No.: 7000-PS011-8330450

Weight: 1.522 Country of origin: DE

Model designation: M6FX8002-5DS11-1AE5

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.

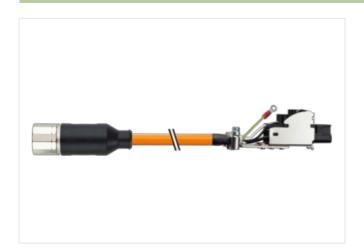
Plastic housings with good resistance against chemicals and oils.

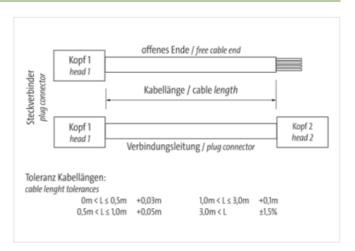
The resistance to aggressive media should be individually tested for your application. Further details on request.

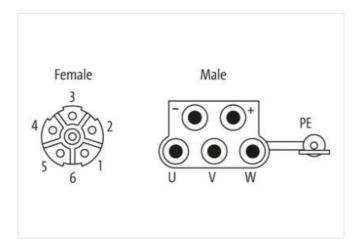
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

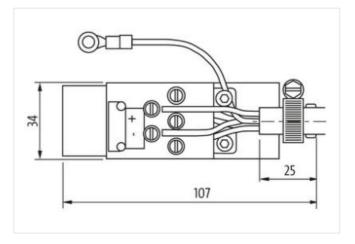
Link to Product

Illustration

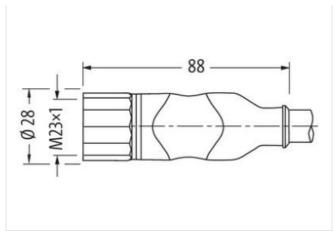












Product may differ from Image

Cable length	4,5 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
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
customs tariff number	85444290
EAN	4048879622530
EAN	4048879622530
Packaging unit	1
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)	1
Mechanical data Material data	
Material housing	PUR
<u></u>	



stay connected

Mechanical data Mounting data Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Deparating temperature max. 85° C Spending temperature max. 85° C Subticional condition temperature max. 85° C Subticional condition temperature max. 85° C Important installation notes Wide on stain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies. Alternation: Observe the permissible bending radii when laying cables, as the liP protection disas can be enhangered by excessive bending forces. Installation Cable wire arrangement Datek, white, (black WIL3/DL, black UL1/C/L, black VIL2, green-yellow) Installation Cable wire arrangement Datek, white, (black WIL3/DL, black UL1/C/L, black VIL2, green-yellow) Installation Cable wire arrangement Datek, white, (black WIL3/DL, black UL1/C/L, black VIL2, green-yellow) Installation Cable wire arrangement Cullius Virgue of Certificate Cullius Vi	Coating locking	nickel plated
Bounding method Inserted, screwed, Shaking protection	Locking material	Brass
Bounding method Inserted, screwed, Shaking protection	Mechanical data Mounting data	
Environmental characteristics Climatic Departing inemperature max. 85 °C Modificinal condition temperature range depending on cable quality Important installation notes Whose on stars netief Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable files. Mode on stars netief Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable files. Mode on stars netief Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable files. Mode on stars netief Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable files. Materials in Cable Whose on stars netief Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable files. Materials in Cable Whose on stars netief Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable files. Materials in Cable Whose on stars netief Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable files. Materials in Cable Whose on stars netief Protector the protection class can be endangered by excessive bending forces. Installation Cable All All All All All All All All All A		inserted screwed Shaking protection
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Departing temperature max. 85 °C departing temperature maps departing on cable quality (additional condition temperature range) departing to constrain relief (additional condition sequence) (additional condition notes) (additional conditional conditi	·	
Important installation notes	<u> </u>	
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Jacket Color	Cable identification	833
Type of Certificate CURus Amount stranding 1 Stranding 2 wires with Filler twisted Amount stranding (type 2) 1 through the stranding (type 2) 4 wires with Filler around Stranding combination twisted Cable shielding (type) Cable shielding (coverage) 85 % Pair shielding (coverage) 85 % Pair shielding (type) copper braid, tinned Standing 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) Alaerial jacket TMPU Treedom from ingredients (jacket) 13 mm Tolerance outer diameter (sacket) 13 mm Tolerance outer diameter (sacket) 2 2 Duter diameter (sacket) 2 4 mm Duter diameter (seath) 2 5 % Autorial wire insulation 2 4 mm Duter diameter follerance core insulation paredient freeness wire insulation 2 4 mm Duter diameter of birgie wires 0 15 mm Conductor crosssection (wire) 8 4 Dalameter of single wires 0 15 mm Tolerance outer diameter wire insulation 2 5 % Date of the seas wire insulation 2 4 mm Duter diameter insulation 2 5 % Date of the seas wire insulation 2 5 % Date of the seas wire insulation 2 5 % Date of the seas wire insulation 2 5 mm Amount wires Donductor troessection (wire) 8 4 Date of the seas wire insulation 1 5 mm Tolerance outer diameter wire insulation Power) 1 5 mm Folerance outer diameter wire insulation 2 5 % Parediameter outer diameter wire insulation 2 5 % Parediameter outer diameter wire insulation Power) Printing colour wire insulation (Power) white (isolation black) Amount wires (Power) 4 whount strand wire (Power) 4 the season wire fixed to black Diameter of single wires (Power) 140 Diameter of single wires (Power) 140 Diameter of single wires (Power) 0,15 mm	Function cable	Hybrid, Signal, Power
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Amount stranding (type 2) 1 4 wires with Filler around Stranding combination twisted Cable shielding (type) copper braid, linned Banding (type) copper braid, linned 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 Treadom from ingredients (jacket) lead-free, CFC-free, halogen-free, silicone-free Duter diameter (behath) ± 5 % Material wire insulation TPM Amount wires 2 Duter diameter tolerance core insulation lead-free, CFC-free, halogen-free, silicone-free Diameter of single wire 0,15 mm² Material wire insulation tender (sheath) 15 mm² Duter diameter tolerance core insulation lead-free, CFC-free, halogen-free, silicone-free Double diameter insulation lead-free, CFC-free, halogen-free, silicone-free Double diameter tolerance core insulation lead-free, CFC-free, halogen-free, silicone-free Material wire insulation lead-free, CFC-free, halogen-free, silicone-free Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) 3,1 mm Tolerance outer diameter wire insulation (Power) 4 Amount strands wire (Power) 140 Diameter of single wires (Power) 0,15 mm	Amount stranding	1
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Pair shielding (type) Banding Fiber tape, Fleece, Foil Filler yes 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) black-free, CFC-free, halogen-free, silicone-free Diter-diameter (jacket) 13 mm Floerance outer diameter (sheath) 5 % Material vine insulation TPM Amount wires 2 Duter diameter insulation 2.4 mm Duter diameter tolerance core insulation 1 ead-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 84 Diameter of single wires 0.15 mm Conductor type (wire) Stranded copper wire, bare Conductor type (wire) 3.1 mm Floerance outer diameter wire insulation (Power) Floerance outer diameter wire insulation 1 pm TPM Amount wires 2 conductor type (wire) 3.5 mm² Material twire insulation (Power) TPM Duter diameter wire insulation (Power) 1 pm Floerance outer diameter wire insulation 1 pm Floerance outer diameter wire insulation 1 pm Floerance outer diameter wire insulation Power) 1 pm Floerance outer diameter wire insulation Floerance outer diameter wi	Cable shielding (type)	copper braid, tinned
Fiber tape, Fleece, Foil yes wire arrangement black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow) Zable weight 311,3 g/m Material jacket TMPU Treedom from ingredients (jacket) lead-free, CFC-free, halogen-free, silicone-free Duter-diameter (jacket) 13 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPM Amount wires 2 Zouter diameter insulation 2,4 mm Duter diameter insulation black (wire) 84 Diameter of single wires 0,15 mm Conductor crosssection (wire) 1,5 mm² Material wire insulation (Power) TPM Duter diameter wire insulation (Power) 3,1 mm Tolerance outer diameter wire insulation (Power) white (isolation black) Amount vires (Power) 140 Amount sire insulation (Power) white (isolation black) Amount ground in the control of the power) 140 Amount wire insulation (Power) 140 Amount wire insulation (Power) 140 Amount wire insulation (Power) 4 Amount wire insulation (Power) 140 Diameter of single wires (Power) 140 Diameter of single wires (Power) 140 Diameter of single wires (Power) 0,15 mm	Cable shielding (coverage)	85 %
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Material wire insulation TPM Amount wires 2 Duter diameter insulation 2,4 mm Duter 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 Donductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Duter diameter wire insulation (Power) 3,1 mm Folerance outer diameter wire insulation (Power) lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) white (isolation black) Amount strands wire (Power) 4 Amount strands wire (Power) 1,40 Diameter of single wires (Power) 0,15 mm	Outer-diameter (jacket)	13 mm
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Amount strands (wire) Amount strands (wire) 84 Diameter of single wires O,15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Duter diameter wire insulation (Power) stranded copper wire, bare ### Diameter of single wire insulation (Power) ### Diameter of single wires (Power) ##	Outer diameter insulation	2,4 mm
Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Duter diameter wire insulation (Power) 3,1 mm Folerance outer diameter wire insulation Power) ±5 % Ingredient freeness wire insulation (Power) lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) 4 Amount strands wire (Power) 140 Diameter of single wires (Power) 0,15 mm	Outer diameter tolerance core insulation	±5%
Diameter of single wires O,15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 3,1 mm Folerance outer diameter wire insulation Power) ### Printing colour wire insulation (Power) Amount wires (Power) ### Amount strands wire (Power) 140 Oiameter of single wires (Power) 0,15 mm	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire) Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Couter diameter wire insulation (Power) Anount strands wire (Power) Tend 1,5 mm² Stranded copper wire, bare Tended copper wire, bare Stranded copper wire, bare Tended copper wire, bare Stranded copper wire, bare Tended copper wire, bare Tended copper wire, bare Stranded copper wire, bare Tended copper wire, b	Amount strands (wire)	84
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Duter diameter wire insulation (Power) 3,1 mm Folerance outer diameter wire insulation Power) ±5 % Ingredient freeness wire insulation (Power) lead-free, CFC-free, halogen-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	Diameter of single wires	0,15 mm
Conductor type (wire) strand class 6 Material wire insulation (Power) TPM Outer diameter wire insulation (Power) 3,1 mm Folerance 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) 140 Diameter of single wires (Power) 0,15 mm	Conductor crosssection (wire)	1,5 mm ²
Material wire insulation (Power) TPM Outer diameter wire insulation (Power) Tolerance outer diameter wire insulation Power) Tolerance outer diameter wire insulation Power) the state of single wires (Power) TPM 3,1 mm the state of single wire insulation (Power) the state of single wires (Power) TPM 3,1 mm the state of single wire insulation (Power) the state of single wires (Power) TPM the state of single wires insulation (Power) the state of single wires (Power) TPM the state of single wires insulation (Power) the state of single wires insulation (P	Material conductor wire	Stranded copper wire, bare
Duter diameter wire insulation (Power) 3,1 mm Folerance 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) 140 Diameter of single wires (Power) 0,15 mm	Conductor type (wire)	strand class 6
Folerance outer diameter wire insulation Power) Ingredient freeness wire insulation (Power) I lead-free, CFC-free, halogen-free, silicone-free Printing colour wire insulation (Power) Amount wires (Power) Amount strands wire (Power) Amount strands wire (Power) Otameter of single wires (Power) 140 0,15 mm	Material wire insulation (Power)	TPM
Power) #5 % Ingredient freeness wire insulation (Power) Printing colour wire insulation (Power) Amount wires (Power) Amount strands wire (Power) Diameter of single wires (Power) #5 % Head-free, CFC-free, halogen-free, silicone-free white (isolation black) 4 Amount strands wire (Power) 140 0,15 mm	Outer diameter wire insulation (Power)	3,1 mm
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	Tolerance outer diameter wire insulation (Power)	±5 %
Amount wires (Power) 4 Amount strands wire (Power) 140 Diameter of single wires (Power) 0,15 mm	Ingredient freeness wire insulation (Power)	lead-free, CFC-free, halogen-free, silicone-free
Amount strands wire (Power) 140 Diameter of single wires (Power) 0,15 mm	Printing colour wire insulation (Power)	white (isolation black)
Diameter of single wires (Power) 0,15 mm	Amount wires (Power)	4
	Amount strands wire (Power)	140
Nire conductor cross section (Power) 2,5 mm²	Diameter of single wires (Power)	0,15 mm
	Wire conductor cross section (Power)	2,5 mm²

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-09-29



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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
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 § 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