

M23 servo cable

specification: 6FX5002-5DS01-1CA0

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.

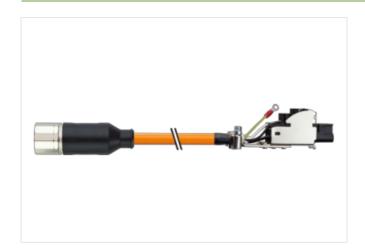
Plastic housings with good resistance against chemicals and oils.

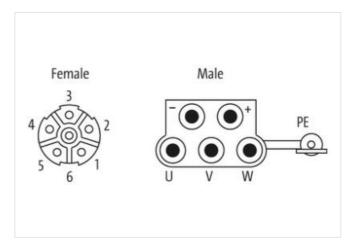
The resistance to aggressive media should be individually tested for your application. Further details on request.

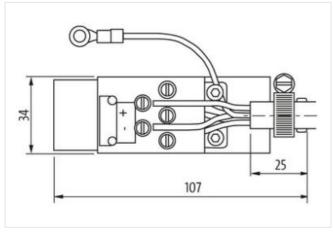
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

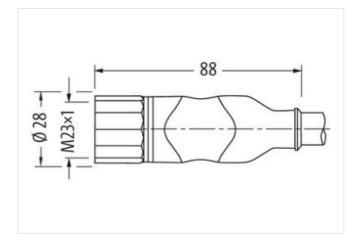
Link to Product

Illustration









Product may differ from Image

Cable length	20 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 85444290 customs tariff number GTIN 4048879539036 Packaging unit Electrical data | Supply 600 V Operating voltage AC per power contact max. 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) ı 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 85 °C Operating temperature max. 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. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be Note on bending radius endangered by excessive bending forces. Installation | Cable Cable identification 861 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) Stranding (type 2) 4 wires with Filler around Stranding combination twisted copper braid, tinned Cable shielding (type) Cable shielding (coverage) 85 %

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: 2024-05-18



Bending Fiber tape, Fiber tape	Pair shielding (type)	copper braid, tinned
Filer		
wire armgement black, white, (Mack W1.4/Dct., black W1.2), green-yellow) Gabto weight 203.5 g/m Material jacket PVC Froedom from ingredients (gacket) 10.4 mm Outer diameter glacket) 10.4 mm Tolerance outer diameter (shatah) 15.5 fs Material river is inqualistic 2.7 mm Outer diameter (production core insulation) 2.4 mm Amount started (programs over insulation) 4.5 fs Improduct (programs over insulation) 2.4 mm Outer diameter (production over insulation) 2.5 fs Improduct (programs over insulation) 2.5 fs Improduction (programs over insulation) 2.5 fm Diameter of single wires 0.25 mm Conductor (prospective viver) 1.5 mm² Material conductor viver Stranded copper viver, bare Conductor type (wire) 2.4 mm Tolerance outer diameter viver insulation (Power) 4.5 mm Tolerance outer diameter viver insulation (Power) 4.5 mm Tolerance outer diameter viver insulation (Power) 4.5 mm Tolerance outer diameter viver (Power) 4.5 mm <t< td=""><td></td><td></td></t<>		
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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) 2 kV @ 60 s Electrical capacity line constant (wire - wire) 100000 pF/km Electrical capacity line constant (wire - shield) Power frequency withstand voltage (wire - aicket) AC withstand voltage (wire - shield) 2 kV @ 60 s Electrical capacity line constant (wire - shield) 2 kV @ 60 s Electrical capacity line constant (wire - shield) 2 kV @ 60 s Electrical capacity line constant (wire - shield) (power) 2 kV @ 60 s Electrical capacity line constant (wire - shield) (power) 2 kV @ 60 s Electrical capacity line constant (wire - shield) AC withstand voltage power (wire - shield) 4 kV @ 60 s Flower frequency withstand voltage power (wire - jacket) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance line constant wire 13,7 \(\Omega \)/km \(\end{array} 20 \) °C Electrical resistance coating wire (Power) 13,7 \(\Omega \)/km \(\end{array} 20 \) °C AC withstand voltage (wire - wire) 2 kV \(\end{array} 60 \) s Electrical capacity line constant (wire - wire) 100000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - jacket) 2 kV \(\end{array} 60 \) s Isolation resistance 5000 \(\Omega \) × km Electrical capacity line constant (wire - shield) 250000 pF/km Electrical capacity line constant (wire - shield) 250000 pF/km Electrical capacity line constant (wire - wire) (power) 150000 pF/km AC withstand voltage power (wire - shield) 4 kV \(\end{array} 60 \) s Power frequency withstand voltage power (wire - shield) 4 kV \(\end{array} 60 \) s AC withstand voltage power (wire - wire) 4 kV \(\end{array} 60 \) s Max. operating temperature (static) -25 °C Max. operating temperature (fixed) 80 °C	Current load capacity min. wire	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) 2 kV @ 60 s Electrical capacity line constant (wire - shield) 160000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s Isolation resistance 5000 MΩ × km Electrical capacity line constant (wire - shield) 2 50000 pF/km Electrical capacity line constant (wire - shield) 2 50000 pF/km Electrical capacity line constant (wire - wire) 150000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 60 s Power frequency withstand voltage power (wire - shield) 4 kV @ 60 s Power frequency withstand voltage power (wire - shield) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 80 °C	Current carrying capacity min. wire (Power)	12,6 A
AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical capacity line constant (wire - wire) 100000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Isolation resistance 5000 MΩ × km Electrical capacity line constant (wire - shield) 250000 pF/km Electrical capacity line constant (wire - wire) (power) 150000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 60 s Power frequency withstand voltage power (wire - jacket) AC withstand voltage power (wire - wire) (wire - jacket) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 80 °C		13,7 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire) 100000 pF/km Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Isolation resistance 5000 MΩ × km Electrical capacity line constant (wire - shield) 250000 pF/km Electrical capacity line constant (wire - wire) (power) 150000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 60 s Power frequency withstand voltage power (wire - shield) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 80 °C	Electrical resistance coating wire (Power)	13,7 Ω/km @20 °C
Electrical capacity line constant (wire - shield) 160000 pF/km Power frequency withstand voltage (wire - 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Isolation resistance 5000 MΩ × km Electrical capacity line constant (wire - shield) 250000 pF/km (power) 150000 pF/km Electrical capacity line constant (wire - wire) 150000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 60 s Power frequency withstand voltage power (wire - wire) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 80 °C	AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Isolation resistance 5000 MΩ × km Electrical capacity line constant (wire - shield) (power) 250000 pF/km Electrical capacity line constant (wire - wire) (power) 150000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 60 s Power frequency withstand voltage power (wire - jacket) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 80 °C	Electrical capacity line constant (wire - wire)	100000 pF/km
Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s AC withstand voltage (wire - shield) 2 kV @ 60 s Isolation resistance 5000 MΩ × km Electrical capacity line constant (wire - shield) (power) 250000 pF/km Electrical capacity line constant (wire - wire) (power) 150000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 60 s Power frequency withstand voltage power (wire - jacket) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 80 °C	Electrical capacity line constant (wire - shield)	160000 pF/km
AC withstand voltage (wire - shield) 2 kV @ 60 s Isolation resistance 5000 MΩ × km Electrical capacity line constant (wire - shield) (power) 250000 pF/km Electrical capacity line constant (wire - wire) (power) 150000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 60 s Power frequency withstand voltage power (wire - wire) (wire - jacket) AC withstand voltage power (wire - wire) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 80 °C	Power frequency withstand voltage (wire -	2 kV @ 60 s
Isolation resistance 5000 MΩ × km Electrical capacity line constant (wire - shield) (power) 250000 pF/km Electrical capacity line constant (wire - wire) (power) 150000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 60 s Power frequency withstand voltage power (wire - jacket) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 80 °C	· ·	2 kV @ 60 s
Electrical capacity line constant (wire - shield) (power) Electrical capacity line constant (wire - wire) (power) 150000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 60 s Power frequency withstand voltage power (wire - jacket) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 250000 pF/km 4 kV @ 60 s		-
Electrical capacity line constant (wire - wire) (power) 150000 pF/km AC withstand voltage power (wire - shield) 4 kV @ 60 s Power frequency withstand voltage power (wire - jacket) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 80 °C	Electrical capacity line constant (wire - shield)	
AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket) 4 kV @ 60 s AC withstand voltage power (wire - wire) 4 kV @ 60 s Min. operating temperature (static) 4 kV @ 60 s 80 °C	Electrical capacity line constant (wire - wire)	150000 pF/km
Power frequency withstand voltage power (wire - jacket) AC withstand voltage power (wire - wire) 4 kV @ 60 s Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 80 °C		4 kV @ 60 s
AC withstand voltage power (wire - wire) 4 kV @ 60 s Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 80 °C	Power frequency withstand voltage power	
Min. operating temperature (static) -25 °C Max. operating temperature (fixed) 80 °C	<u> </u>	4 kV @ 60 s
Max. operating temperature (fixed) 80 °C		



Operating temperature max. (dynamic)	60 °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	DIN EN 60811-404 Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	18 x Outer diameter
No. of bending cycles (C-track)	0,1 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	0,5 m/s @ 25 °C
Torsion stress	± 30 °/m