

M23 SERVO CABLE

Specification: 6FX5002-5DN16-1BA0

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

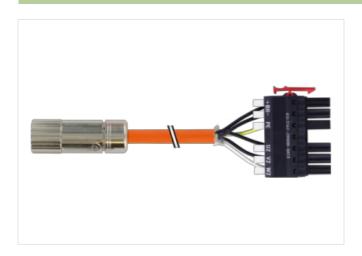
Further cable lengths on request.

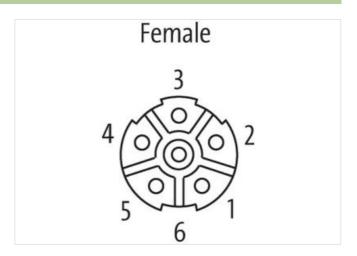
Plastic housings with good resistance against chemicals and oils.

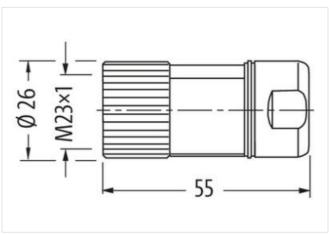
The resistance to aggressive media should be individually tested for your application. Further details on request.

Link to Product

Illustration







Product may differ from Image

Form		
Form	PS412	
Technical Data		
Operating voltage	max. 630 V AC/DC	
Rated surge voltage	6.0 kV	
Operating current per contact	Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)	

The information in this brochure has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2022-11-13



stay o	connected
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Lacking of ports	Material group	IEC 60664-1, category I
Locking material Brass, nickel plated suitable for corrugated tube (internal Ø) without Compression gland M23 (SW27) General data Pollution Degree 3 7 emperature range -25+85 °C, depending on cable quality Cables Volume (about 10 miles) Volume (bit Nume) No. disameter of wires (4G2.5 + (2x 1.5)C)-C Wire sloation TPM (bit num, grye) Ctrack properties 0.1 Mio 0 0 Outer Ø 12.0 mm 15% 0 0 Cable identification 863 0 0 0 Cable identification 863 0	Locking of ports	Screw thread (M23×1 mm) recommended torque 2.0 Nm, self-securing
suitable for corrugated tube (internal Ø) without Compression gland M23 (SW27) General date Pollution Degree 3 Temperature range <25+85 °C, depending on cable quality Cables Cables Wire isolation TPM (bk num, gnye) C-track properties 0.1 Mio. Outer Ø 12.0 mm ±5% Cable identification 863 Perecent identification 863 Image: Identification 863 Image: Identification 863 Cable identification 863 Outer O (cable) 0.25 mm Mile (in wire) 0.25 mm Use (in wire) 0.25 mm	Material	Zinc die casting, nickel-plated
Compression gland M23 (SW27) Central data Pollution Degree 3 Tamperature range 25+85 °C, depending on cable quality Cables No./daneter of wires (4G2.5 + (2×1.5)C)·C Wire isolation TPM (bx num, gnye) C-track properties 0.1 Mio. Outor Ø 12.0 mm ±5% Cable demittication 85 Cable demittication 85 Cable number 863 Approval (cable) UL (AWM-Style 2570/10492), CSA Material (wire) Cu wire, barre Resistor (core) max. 13.3 Ω/km (20 °C) Single wire Ø (core) 0.25 mm Dameter (core) (4G2.5 + (2×1.5)C)·C Material (wire isolation) PP Wire-Ø incl. isolation 2.4 ±5% (1.5 mm²); 3.0 ±5% (2.5 mm²) Obline Wire Founds of wires bit, wh (1.5 mm²); bit, gnye longitudinally striped (2.5 mm²) Shield yes Shield (Type) Copper braid Opicial shield cover min. 85% Material (jacket) PVC Outo-Ø (jacket) <td>Locking material</td> <td>Brass, nickel plated</td>	Locking material	Brass, nickel plated
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Wire isolation TPM (bk num, gnye) C-track properties 0.1 Mio. Outer Ø 12.0 mm ±5% Cable identification 863 Cable number 863 Approval (cable) UL (AWM-Style 2570/10492), CSA Material (wire) Cu wire, bare Resistor (core) max. 13.3 Dkm (20 °C) Single wire Ø (core) 0.25 mm Diameter (core) (4G2.5 + (2× 1.5)C)·C Material (wire isolation) PP Wire-Ø incl. Isolation 2.4 ±5% (1.5 mm²); 3.0 ±5% (2.5 mm²) Color/numbering of wires bk, wh (1.5 mm²); bk, gnye longitudinally striped (2.5 mm²) Shield yes Shield (Type) Copper braid optical shield cover min. 95% Material (jacket) PVC Outer-Ø (jacket) 12.0 mm ±5% Material resistance flame retardant UL 1581 VW1 / CSA FT1 Temperature range (fixed) 20+80 °C Temperature range (fixed) 20+80 °C Temperature range (fixed) 20+80 °C Temperature range (mobile) 20+80 °C	Cables	
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Cable identification 863 Cable number 863 Approval (cable) UL (AWM-Style 2570/10492), CSA Material (wire) Cu wire, bare Resistor (core) max. 13.3 Ω/km (20 °C) Single wire Ø (core) 0.25 mm Diameter (core) (4G2.5 + (2×1.5)C)-C Material (wire isolation) PP Wire-G Incl. Isolation 2.4 ±5% (1.5 mm²); 3.0 ±5% (2.5 mm²) Color/numbering of wires bik, wh (1.5 mm²); bk, gnye longitudinally striped (2.5 mm²) Shield yes Shield (Type) Copper braid optical shield cover min. 85% Material (gacket) PVC Outer-Ø (jacket) 12.0 mm ±5% Color (jacket) 12.0 mm ±5% Color (jacket) orange Jacket Color orange Hermal resistance flame retardant UL 1581 VW1 / CSA FT1 Temperature range (fixed) -20+80 °C Temperature range (mobile) -20+60 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 5× outer Ø Bend radi	C-track properties	
Cable number 863 Approval (cable) UL (AWM-Style 2570/10492), CSA Material (wire) Cu wire, bare Resistor (core) max. 13.3 Ω/km (20 °C) Single wire Ø (core) 0.25 mm Diameter (core) (4G2.5 + (2× 1.5)C)·C Material (wire isolation) PP Wire-Ø incl. isolation 2.4 ±5% (1.5 mm²); 3.0 ±5% (2.5 mm²) Color/numbering of wires bk, wh (1.5 mm²); bk, gnye longitudinally striped (2.5 mm²) Shield yes Shield (Type) Copper braid optical shield cover min. 85% Material (jacket) PVC Outer-Ø (jacket) 12.0 mm ±5% Color (jacket) orange Jacket Color orange Hermal resistance flame retardant UL 1581 VW1 / CSA FT1 Temperature range (fixed) -20+80 °C Temperature range (mobile) -20+60 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Bend radius (moving) 10× outer Ø		12.0 mm ±5%
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Material (wire) Cu wire, bare Resistor (core) max. 13.3 Ω/km (20 °C) Single wire Ø (core) 0.25 mm Diameter (core) (4G2.5 + (2 × 1.5)C)-C Material (wire isolation) PP Wire-Ø incl. isolation 2.4 ±5% (1.5 mm²); 3.0 ±5% (2.5 mm²) Color/numbering of wires bk, wh (1.5 mm²); bk, gnye longitudinally striped (2.5 mm²) Shield yes Shield (Type) Copper braid optical shield cover min. 85% Material (jacket) PVC Outer-Ø (jacket) 12.0 mm ±5% Color (jacket) orange Jacket Color orange Jacket Color orange thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Temperature range (fixed) -20+80 °C Temperature range (fixed) -20+80 °C Temperature range (mobile) -20+80 °C Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500)	Cable number	863
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Single wire Ø (core) 0.25 mm Diameter (core) (4G2.5 + (2× 1.5)C)·C Material (wire isolation) PP Wire-Ø incl. isolation 2.4 ±5% (1.5 mm²); 3.0 ±5% (2.5 mm²) Color/numbering of wires bk, wh (1.5 mm²); bk, gnye longitudinally striped (2.5 mm²) Shield yes Shield (Type) Copper braid optical shield cover min. 85% Material (jacket) PVC Outer-Ø (jacket) 12.0 mm ±5% Color (jacket) orange Jacket Color orange thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Temperature range (fixed) -20+80 °C Temperature range (fixed) -20+80 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 5× outer Ø Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500) Product article number of manufacturer 7000-PS412-8631000		
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Material (wire isolation) PP Wire-Ø incl. isolation 2.4 ±5% (1.5 mm²); 3.0 ±5% (2.5 mm²) Color/numbering of wires bk, wh (1.5 mm²); bk, gnye longitudinally striped (2.5 mm²) Shield yes Shield (Type) Copper braid optical shield cover min. 85% Material (jacket) PVC Outer-Ø (jacket) 12.0 mm ±5% Color (jacket) orange Jacket Color orange thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Temperature range (fixed) -20+80 °C Temperature range (fixed) -20+80 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500)	Single wire Ø (core)	0.25 mm
Wire-Ø incl. isolation 2.4 ±5% (1.5 mm²); 3.0 ±5% (2.5 mm²) Color/numbering of wires bk, wh (1.5 mm²); bk, gnye longitudinally striped (2.5 mm²) Shield yes Shield (Type) Copper braid optical shield cover min. 85% Material (jacket) PVC Outer-Ø (jacket) 12.0 mm ±5% Color (jacket) orange Jacket Color orange thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Temperature range (fixed) -20+80 °C Temperature range (mobile) -20+80 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500)	Diameter (core)	(4G2.5 + (2× 1.5)C)-C
Color/numbering of wires bk, wh (1.5 mm²); bk, gnye longitudinally striped (2.5 mm²) Shield yes Shield (Type) Copper braid optical shield cover min. 85% Material (jacket) PVC Outer-Ø (jacket) 12.0 mm ±5% Color (jacket) orange Jacket Color orange thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Temperature range (fixed) -20+80 °C Temperature range (fixed) -20+80 °C Temperature range (mobile) -20+60 °C Temperature range (mobile) 5× outer Ø Bend radius (fixed) 5× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500) Product article number of manufacturer 7000-PS412-8631000	Material (wire isolation)	PP
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Shield (Type) Copper braid optical shield cover min. 85% Material (jacket) PVC Outer-Ø (jacket) 12.0 mm ±5% Color (jacket) orange Jacket Color orange thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Temperature range (fixed) -20+80 °C Temperature range (fixed) -20+80 °C Temperature range (mobile) -20+60 °C Temperature range (mobile) -20+60 °C Dend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500) Product article number of manufacturer 7000-PS412-8631000	Color/numbering of wires	bk, wh (1.5 mm²); bk, gnye longitudinally striped (2.5 mm²)
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Material (jacket) Outer-Ø (jacket) 12.0 mm ±5% Color (jacket) orange Jacket Color orange thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Temperature range (fixed) -20+80 °C Temperature range (mobile) -20+80 °C Temperature range (mobile) -20+60 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500)	Shield (Type)	Copper braid
Outer-Ø (jacket) 12.0 mm ±5% Color (jacket) orange Jacket Color orange thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Temperature range (fixed) -20+80 °C Temperature range (fixed) -20+80 °C Temperature range (mobile) -20+60 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500)	optical shield cover	min. 85%
Color (jacket) orange Jacket Color orange thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Temperature range (fixed) -20+80 °C Temperature range (fixed) -20+80 °C Temperature range (mobile) -20+60 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500)	Material (jacket)	PVC
Jacket Color orange thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Temperature range (fixed) -20+80 °C Temperature range (fixed) -20+80 °C Temperature range (mobile) -20+60 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500)	Outer-Ø (jacket)	12.0 mm ±5%
thermal resistance flame retardant UL 1581 VW1 / CSA FT1 Temperature range (fixed) -20+80 °C Temperature range (fixed) -20+80 °C Temperature range (mobile) -20+60 °C Temperature range (mobile) 5× outer Ø Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500) Product article number of manufacturer 7000-PS412-8631000	Color (jacket)	orange
Temperature range (fixed) -20+80 °C Temperature range (fixed) -20+80 °C Temperature range (mobile) -20+60 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500)	Jacket Color	orange
Temperature range (fixed) -20+80 °C Temperature range (mobile) -20+60 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500)	thermal resistance	flame retardant UL 1581 VW1 / CSA FT1
Temperature range (mobile) -20+60 °C Temperature range (mobile) -20+60 °C Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500) Product article number of manufacturer 7000-PS412-8631000	Temperature range (fixed)	-20+80 °C
Temperature range (mobile) -20+60 °C Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500) Product article number of manufacturer 7000-PS412-8631000	Temperature range (fixed)	-20+80 °C
Bend radius (fixed) 5× outer Ø Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500) Product article number of manufacturer 7000-PS412-8631000	Temperature range (mobile)	-20+60 °C
Bend radius (moving) 10× outer Ø Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500) Product article number of manufacturer 7000-PS412-8631000	Temperature range (mobile)	-20+60 °C
Torsion stress ±30°/m Material (jacket) PVC (UL/CSA) (=MC500) Product article number of manufacturer 7000-PS412-8631000	Bend radius (fixed)	5× outer Ø
Material (jacket) PVC (UL/CSA) (=MC500) Product article number of manufacturer 7000-PS412-8631000	Bend radius (moving)	10× outer Ø
Product article number of manufacturer 7000-PS412-8631000	Torsion stress	±30°/m
	Material (jacket)	PVC (UL/CSA) (=MC500)
Cable length 10 m	Product article number of manufacturer	7000-PS412-8631000
	Cable length	10 m