

M23 servo cable

specification: 6FX5002-5DS01-1AD5

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.

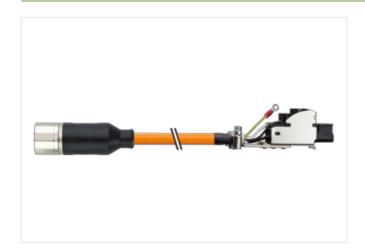
Plastic housings with good resistance against chemicals and oils.

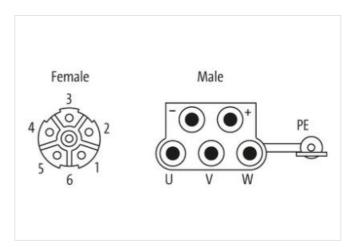
The resistance to aggressive media should be individually tested for your application. Further details on request.

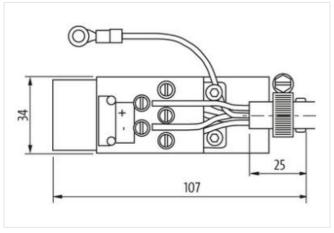
Power cores: 12 A (1.5 mm²), 15 A (2.5 mm²); brake cores: 5 A (1.5 mm²)

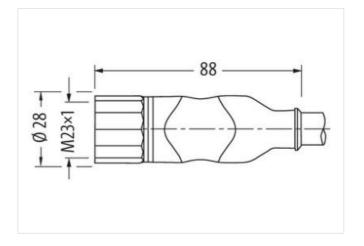
Link to Product

Illustration









Product may differ from Image

| Cable length | 3,5 m |
|--------------------------|---------|
| Side 1 | |
| Tightening torque | 2 Nm |
| Family construction form | M23 |
| Thread | M23 x 1 |



stay connected

| suitable for corrugated tube (internal Ø) | 16 mm |
|---|---|
| Width across flats | SW27 |
| Commercial data | |
| ECLASS-6.0 | 27279218 |
| ECLASS-7.0 | 27279218 |
| ECLASS-8.0 | 27279218 |
| ECLASS-9.0 | 27060311 |
| ECLASS-10.1 | 27060311 |
| ECLASS-11.1 | 27060311 |
| ECLASS-12.0 | 27060327 |
| ETIM-5.0 | EC001855 |
| customs tariff number | 85444290 |
| GTIN | 4048879587419 |
| Packaging unit | 1 |
| Electrical data Supply | |
| Operating voltage AC per power contact max. | 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) | |
| 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 |
| Operating temperature max. | 85 °C |
| 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. |
| 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. |
| Installation Cable | |
| wire arrangement | black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow) |
| 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) | 1 |
| Stranding (type 2) | 4 wires with Filler around Stranding combination twisted |
| Cable shielding (type) | copper braid, tinned |
| | |

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: 2024-06-25



stay connected

| copper braid, tinned |
|--|
| Fiber tape, Fleece, Foil |
| yes |
| black, white, (black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow) |
| 203,5 g/m |
| PVC |
| lead-free, CFC-free, silicone-free |
| 10,4 mm |
| ± 5 % |
| TPM |
| 2 |
| 2,4 mm |
| ± 5 % |
| lead-free, CFC-free, silicone-free |
| 30 |
| 0,25 mm |
| 1,5 mm² |
| Stranded copper wire, bare |
| Strand class 5 |
| 2,4 mm |
| ±5 % |
| lead-free, CFC-free, silicone-free |
| white (isolation black) |
| 4 |
| 30 |
| 0,25 mm |
| 1,5 mm² |
| Stranded copper wire, bare |
| Strand class 5 |
| 1000 V |
| 600 V |
| to DIN VDE 0298-4 |
| 12,6 A |
| 12,6 A |
| 13,7 Ω/km @ 20 °C |
| 13,7 Ω/km @20 °C |
| 2 kV @ 60 s |
| 100000 pF/km |
| 160000 pF/km |
| 2 kV @ 60 s |
| 2 kV @ 60 s |
| 5000 MΩ × km |
| 250000 pF/km |
| 150000 pF/km |
| 4 kV @ 60 s |
| |
| 4 kV @ 60 s |
| 4 kV @ 60 s 4 kV @ 60 s |
| |
| 4 kV @ 60 s |
| 4 kV @ 60 s -25 °C |
| |

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| 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 |