

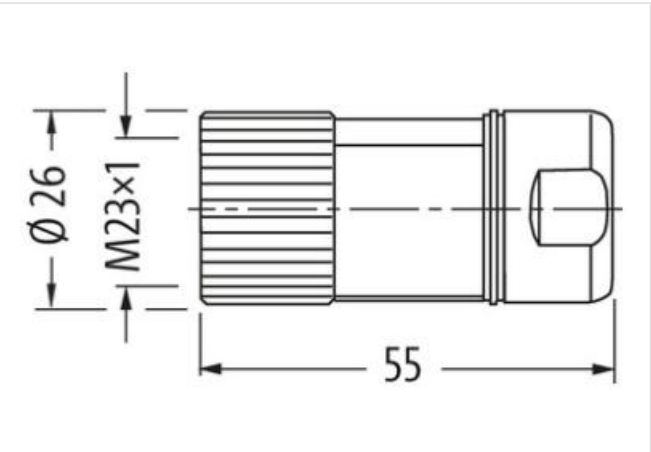
M23 SERVO CABLE

Specification: 6FX8002-5DN16-1BA0

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.
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 | 10 m |
| Side 1 | |
| Tightening torque | 2 Nm |
| Family construction form | M23 |
| Thread | M23 x 1 |

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|---|---|
| Width across flats | SW27 |
| Degree of protection (EN IEC 60529) | IP66, IP67 |
| 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 | 4048879681537 |
| Packaging unit | 1 |
| Electrical data Supply | |
| Operating voltage AC max. | 630 V |
| Operating voltage DC max. | 630 V |
| Device protection Electrical | |
| Pollution Degree | 3 |
| Rated surge voltage | 6 kV |
| Material group (IEC 60664-1) | I |
| Mechanical data | |
| Contour for corrugated hose | without |
| Mechanical data Material data | |
| Coating housing | nickel plated |
| Coating locking | nickel plated |
| Material housing | Zinc die-casting |
| 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 | |
| Cable identification | 833 |
| 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 |
| Cable shielding (coverage) | 85 % |
| Pair shielding (type) | copper braid, tinned |

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|---|--|
| 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 weighth | 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 | TPM |
| 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 crossection (wire) | 1,5 mm ² |
| 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 |
| Tolerance 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 |
| Wire conductor cross section (Power) | 2,5 mm ² |
| 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 |

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: 2024-05-19

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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 | 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 |