

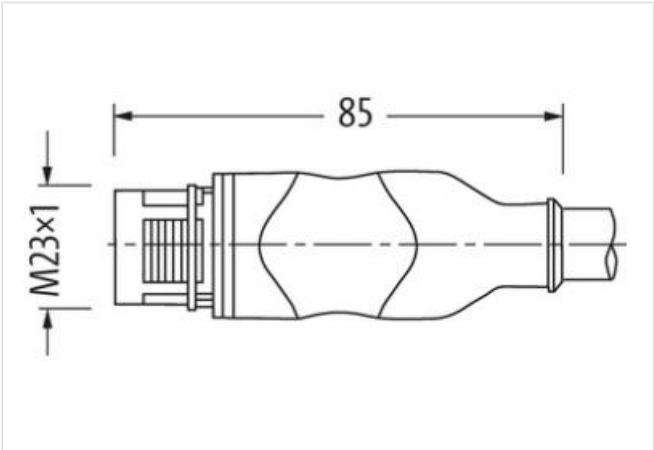
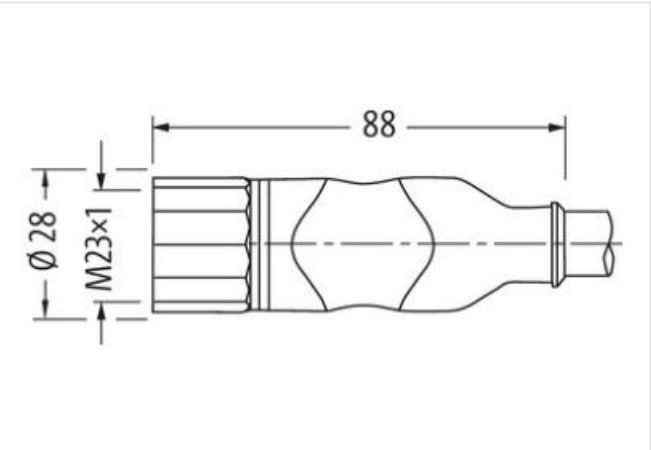
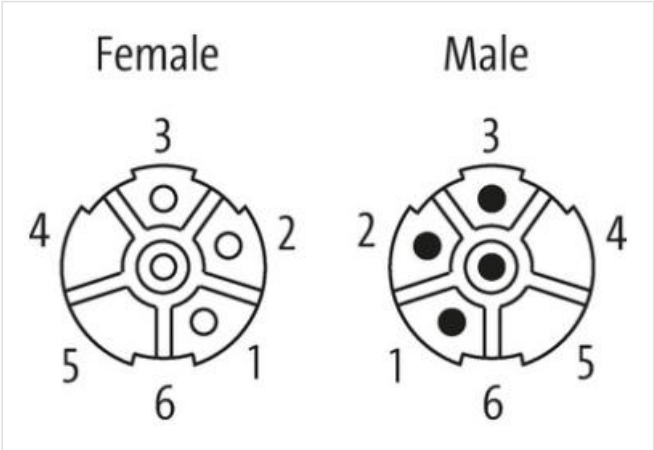
M23 servo cable

specification: 6FX8002-5CA05-1BA0

Power cable for SINAMICS S120 and Motors with M23 connection
The resistance to aggressive media should be individually tested for your application. Further details on request.
Female straight – male straight
M23 – M23, 6-pole
4-pole used
shielded
without brake wires
without cable sleeves
Further cable lengths on request.
Plastic housings with good resistance against chemicals and oils.
Power cores: 12 A (1.5 mm²), 15 A (2.5 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 |
| suitable for corrugated tube (internal Ø) | 16 mm |
| Width across flats | SW27 |
| Side 2 | |
| Family construction form | M23 |
| suitable for corrugated tube (internal Ø) | 23 mm |
| 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 |
| GTIN | 4048879507318 |
| Packaging unit | 1 |
| Electrical data Supply | |
| Operating voltage AC max. | 630 V |
| Operating voltage DC max. | 630 V |
| Device protection Electrical | |
| Degree of protection (EN IEC 60529) | IP65, IP67 |
| Additional condition protection degree | inserted, screwed |
| Pollution Degree | 3 |
| Rated surge voltage | 6 kV |
| Material group (IEC 60664-1) | I |
| 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 |
| Installation Cable | |
| Cable identification | 854 |
| Jacket Color | orange |
| Type of Certificate | cURus |
| Amount stranding | 1 |
| Stranding | 4 wires with Filler twisted |
| Cable shielding (type) | copper braid, tinned |
| Cable shielding (coverage) | 85 % |
| Banding | Fiber tape, Fleece |
| Filler | yes |
| wire arrangement | black W/L3/D/L-, black U/L1/C/L+, black V/L2, green-yellow |

| | |
|---|--|
| No. of bending cycles (C-track) | 10 Mio. @ 25 °C |
| Cable weight | 141,9 g/m |
| Material jacket | TMPU |
| Freedom from ingredients (jacket) | lead-free, CFC-free, halogen-free, silicone-free |
| Outer-diameter (jacket) | 8,6 mm |
| Tolerance outer diameter (sheath) | ± 5 % |
| Material wire insulation (Power) | TPM |
| Outer diameter wire insulation (Power) | 2,4 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) | 84 |
| Diameter of single wires (Power) | 0,15 mm |
| Wire conductor cross section (Power) | 1,5 mm ² |
| Material conductor wire (Power) | Stranded copper wire, bare |
| Conductor type wire (Power) | strand class 6 |
| Traversing distance (C-track) | 50 m @ 25 °C horizontal |
| Current load capacity (standard) | to DIN VDE 0298-4 |
| Electrical resistance coating wire (Power) | 13,7 Ω/km @20 °C |
| Max. rated voltage power (conductor - ground) | 600 V |
| Max. rated voltage power (conductor - conductor) | 1000 V |
| 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 IEC 60332-2-2 UL 1581 § 1100 FT2 |
| 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) | 4 x Outer diameter |
| Bending radius (dynamic) | 7,5 x Outer diameter |
| Torsion stress | ± 30 °/m |