

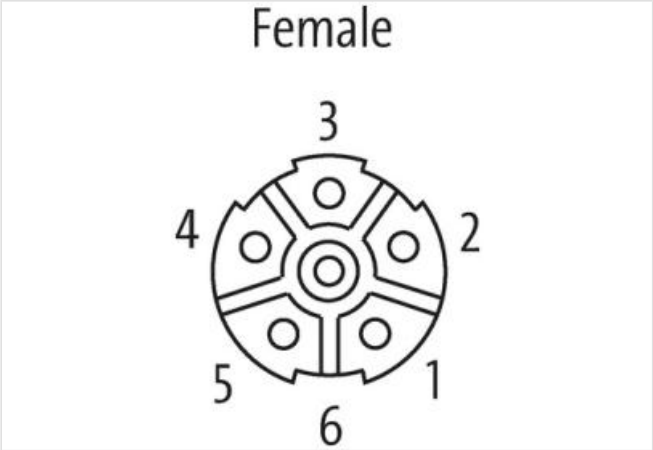
**M23 servo cable**

specification: 6FX5002-5DG11-1AF0

Female straight  
M23, 6-pole  
shielded  
Power cable with brake wires for SINAMICS S120 and motors with M23 connection and holding brake  
Mounting bracket  
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 PS202

Technical Data

|                     |                                                  |
|---------------------|--------------------------------------------------|
| Operating voltage   | 600 V AC/DC (PIN 1/2/3/6); 250 V AC/DC (PIN 4/5) |
| Rated surge voltage | 4 kV (PIN 1/2/3/6); 2 kV (PIN 4/5)               |

|                                           |                                                                                                                |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Operating current per contact             | Power cores: 12 A (1.5 mm <sup>2</sup> ), 15 A (2.5 mm <sup>2</sup> ); brake cores: 5 A (1.5 mm <sup>2</sup> ) |
| Material group                            | IEC 60664-1, category I                                                                                        |
| Locking of ports                          | Screw thread (M23×1 mm) recommended torque 2.0 Nm, self-securing                                               |
| Protection                                | IP65 and IP67 when plugged and screwed down (EN 60529)                                                         |
| Material                                  | PUR                                                                                                            |
| Locking material                          | Brass, nickel plated                                                                                           |
| suitable for corrugated tube (internal Ø) | 16 mm                                                                                                          |
| Compression gland                         | M23 (SW27)                                                                                                     |

**General data**

|                   |                                          |
|-------------------|------------------------------------------|
| Pollution Degree  | 3                                        |
| Temperature range | -25...+85 °C, depending on cable quality |

**Cables**

|                            |                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------|
| No./diameter of wires      | (4G2.5 + (2× 1.5)C)-C                                                                 |
| 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 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 mm <sup>2</sup> ); 3.0 ±5% (2.5 mm <sup>2</sup> )                        |
| Color/numbering of wires   | bk, wh (1.5 mm <sup>2</sup> ); bk, gnye longitudinally striped (2.5 mm <sup>2</sup> ) |
| 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) | -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-PS202-8630500 |
| Cable length                           | 5 m                |