

# Technical data sheet · According to SIEMENS-6FX8002 standard

## Base cable



Servo cable assemblies with brake pairs for C-tracks

|                       |          |                    |
|-----------------------|----------|--------------------|
| <b>Identification</b> | Type     | 6FX8002-5DA02-1BA0 |
|                       | Part-No. | 198470.1000        |

### Use/Application/Characteristics

|                 |  |
|-----------------|--|
| Application     | <ul style="list-style-type: none"> <li>• Base cable, for Siemens servo drives</li> <li>• Due to full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions, aggressive coolants and lubricants</li> <li>• Especially for industrial environments, machines and plants</li> </ul> |
| Characteristics | <ul style="list-style-type: none"> <li>• Silicone free</li> <li>• RoHS-compliant</li> </ul>  |

### Technical data

|                                 |   |                  |
|---------------------------------|---|------------------|
| Number of strands/cross-section | (4G2.5+(2×1.5))   |                  |
| OD Ø                            | 12.1 ca. mm   |                  |
| Conductor marking               | Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L- |                  |
| UL approval                     | cURus   |                  |
| Nominal voltage                 | 1000 V 80 °C  |                  |
| Voltage                         | U <sub>0</sub> /U   | 0.6/1 kV         |
| Test voltage                    | 4000 V  |                  |
| Insulation resistance           | min. 500 MΩ × km  |                  |
| Temperature range               | moving  | -25 °C to +80 °C |
|                                 | fixed   | -40 °C to +80 °C |
| Minimum bending radius          | moving  | D × 10           |

17.02.2017 – Subject to technical modification

Part-No. 198470.1000

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SYSTEMATIC TECHNOLOGY

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|                  |  |       |
|------------------|--|-------|
| Burning behavior | fixed<br>Flame-retardant according to VDE 0482 T 265-2,<br>DIN EN 50265-2, IEC 60332-1,<br>UL 1581 section 1080 VW-1, CSA FT 1 | D × 6 |
| Halogen free     | according to DIN EN 50267-2-1, EN 60684-2  |       |
| Product photo    | The product photos are not to scale and do not represent detailed images of the respective products.                           |       |

### Construction

|                      |  |  |
|----------------------|--|--|
| Conductor structure  | Bare copper wire, finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6 |  |
| Conductor insulation | Special TPE/HGI conductor insulation, UL   |  |
| Conductor marking    | Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L-                  |  |
| Ground conductor     | green/yellow according to DIN EN 50334   |  |
| Control pair         | Control pair color-coded (bk, wh)<br>Control pair with braided shield and foil tape    |  |
| Stranding            | Conductors cabled in layers without mechanical stress, layer pitch optimised           |  |
| Banding              | Fleece wrap over cable core  |  |
| Overall shield       | Braid from tinned copper wire, optical coverage ≥ 85 %                                 |  |
| Outer jacket         | Full polyurethane jacket, matte, adhesion-free surface                                 |  |
| Jacket color         | orange RAL 2003  |  |

### General

|      |   |  |
|------|---|--|
| Note | * Siemens article designations are registered trademarks of Siemens AG, and are for reference purposes only |  |
|------|---|--|

#### Ordering instructions:

**The LÜTZE Art. no. consists of two blocks that are separated by a dot:**  
**6 digits before the dot: technical design**  
**4 digits after the dot: length code in cm**  
**Ex.: 198360.0500 corresponds to a length of 5.0 m**

#### Special features:

- No minimum order quantity
- All intermediate lengths in steps of 0.5 m are available within a short time
- When ordering, please specify serial number and length key
- Additional types on request

### Symbols

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