

## Technical data sheet

### Servo cable assemblies without brake pairs for fixed installation

According to SIEMENS 6FX5002 standard

Base cable



#### Identification

Type	6FX5002-5CS14-1BA0
Part No.	<a href="#">198273.1000</a>
SIEMENS designation*	6FX5002-5CS14-1BA0
System	Siemens

#### Product version

Datasheet version	00
-------------------	----

#### Use/Application/Properties

Application	<ul style="list-style-type: none"><li>• Base cable for Siemens servo drives</li><li>• For flexible applications without compulsory guide</li><li>• More cost-effective alternative to the cable chain version 6FX8002</li></ul>
Properties	<ul style="list-style-type: none"><li>• PVC Flame-retardant, self-extinguishing</li><li>• Silicone free</li><li>• RoHS compliant</li></ul>

#### Technical data

Number of conductors/cross-section	(4G10)
Number of conductors	4
Outer Ø	16.5 mm
Cable length	10 m
Rated voltage $U_N$	1000 V 80 °C
Rated voltage $U_0/U$	600/1000 V
Test voltage type	4000 V
Insulation resistance at 20 °C	$\geq 500 \text{ M}\Omega \times \text{km}$
Temperature range fixed	-25 °C ... +80 °C
Temperature range moving	-5 °C ... +80 °C
Minimum bending radius fixed	6×cable OD
Minimum bending radius moving	10×cable OD
Cable used	116405
Product photo	The product photos are not to scale and do not represent detailed images of the respective products.

#### USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA  
Tel. +1 (704) 504-0222 • Fax +1 (704) 504-0223  
www.lutze.com • info@lutze.com

29.04.2022 • Subject to technical modification  
Part No. [198273.1000](#) • Datasheet version: 00

## Technical data sheet

### Servo cable assemblies without brake pairs for fixed installation

---

#### Construction

---

Number of conductors/cross-section	(4G10)
Number of conductors	4
Conductor	CU-wire bare
Conductor category	Finely stranded DIN VDE 0295 IEC 60228, Class 5
Conductor marking	Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L-
Conductor insulation	Special PP
Overall wrapping	Fleece taping over the cable core
Overall shield	Braid shield tinned copper wires optical cover approx. 85 %
Jacket material	PVC
Jacket color	orange RAL 2003

---

#### General

---

Note	<p>* Siemens article designations are registered trademarks of Siemens AG, and are for reference purposes only</p> <p><b>Ordering instructions:</b> <b>The LÜTZE Art. no. consists of two blocks that are separated by a dot:</b> <b>6 digits before the dot: technical design</b> <b>4 digits after the dot: length code in cm</b> <b>Ex.: 198360.0500 corresponds to a length of 5.0 m</b></p> <p><b>Special features:</b> 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</p>
------	--

---

#### Approvals/Standards

---

Approvals	cURus
Burning behavior according to	IEC 60332-1 DIN EN 50265-2 VDE 0482 Part 265-2 UL 1581 part 1080 VW-1 UL FT1