

# Technical data sheet · According to SIEMENS-6FX5002 standard

## Base cable



Servo cable assemblies with bra-  
ke pairs for fixed installation

<b>Identification</b>	Type	6FX5002-5DG31-1BA0
	Part-No.	198091.1000
System	Siemens	
SIEMENS designation*	6FX5002-5DG31-1BA0	

### Use/Application/Characteristics

Application	<ul style="list-style-type: none"> <li>• Base cable for Siemens servo drives</li> <li>• For flexible applications without continuous flexing</li> </ul>
Characteristics	<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	(4G2.5+(2×1.5))
Number of conductors	6
Outer Ø	13 mm
Cable length	10 m
Rated voltage	1000 V 80 °C
Rated voltage U <sub>0</sub> /U	600/1000
Test voltage	4000 V
Insulation resistance	> 500 MΩ × km
Temperature range fixed	-30 °C ... +70 °C
Temperature range moving	-5 °C ... +70 °C

29.04.2017 – Subject to technical modification

Part-No. 198091.1000

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

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2  
www.lutze.com • sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY

# Technical data sheet · According to SIEMENS-6FX5002 standard

## Base cable

---

Minimum bending radius fixed	6×D
Minimum bending radius moving	10×D
Burning behavior according to	VDE 0482 Part 265-2 DIN EN 50265-2 IEC 60332-1 UL 1581 Part 1080 VW-1 UL FT1
Approvals	cURus
Cable used	116416
Product photo	The product photos are not to scale and do not represent detailed images of the respective products.

---

### Construction

---

Number of conductors/cross-section	(4G2.5+(2×1.5))
Number of conductors	6
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-
Control pair	colour coded (bw, wb) with foil tape and braided shield
Conductor insulation	Special PP
Overall wrapping	Non-woven material 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	* 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**

29.04.2017 – Subject to technical modification

Part-No. 198091.1000

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

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park

Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU

Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2

www.lutze.com • sales.gb@lutze.co.uk



SYSTEMATIC TECHNOLOGY

# Technical data sheet · According to SIEMENS-6FX5002 standard

## Base cable

---

### 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



29.04.2017 – Subject to technical modification

Part-No. 198091.1000

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

United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park  
Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU  
Tel. +44 (0)1827 31333-0 • Fax +44 (0)1827 31333-2  
www.lutze.com • sales.gb@lutze.co.uk