

Technical data sheet · According to SIEMENS-6FX5002 standard

Base cable



Servo cable assemblies with bra-
ke pairs for fixed installation

Identification	Type	6FX5002-5DA31-1BA0
	Part-No.	198531.1000
System	Siemens	
SIEMENS designation*	6FX5002-5DA31-1BA0	

Use/Application/Characteristics

Application	<ul style="list-style-type: none">• Base cable for Siemens servo drives• For flexible applications without continuous flexing
Characteristics	<ul style="list-style-type: none">• PVC Flame-retardant, self-extinguishing• Silicone free• RoHS-compliant

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 ₀ /U	600/1000
Test voltage	4000 V
Insulation resistance	> 500 MΩ × km
Temperature range fixed	-25 °C ... +80 °C
Temperature range moving	-5 °C ... +80 °C

29.04.2017 – Subject to technical modification

Part-No. 198531.1000

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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
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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

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SYSTEMATIC TECHNOLOGY

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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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