

# Technical data sheet · LÜTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV Motor/energy supply cable for Siemens and other systems



PVC servo cables · shielded

<b>Identification</b>	Type	SI M(C)Y SE(4G4+(2×1,5))UL 1KV OR
	Part-No.	116417
SIEMENS designation*	1BA31	

## Use/Application/Characteristics

Application	<ul style="list-style-type: none"> <li>• For Siemens 6FX5008* standard system (and similar)</li> <li>• Connection cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology</li> <li>• Flexible construction for easy installation</li> <li>• Suitable for static laying and slight movement of machine components (not C-track)</li> <li>• Low capacitance for high dielectric strength for long cable guide from inverter to motor</li> <li>• In dry and damp rooms</li> <li>• Especially for industrial environments in mechanical and system engineering</li> </ul>
Characteristics	<ul style="list-style-type: none"> <li>• Low capacitance for high dielectric strength</li> <li>• High active and passive interference resistance (EMC)</li> <li>• PVC, flame-retardant and self-extinguishing</li> <li>• Orange RAL 2003 per DESINA</li> <li>• Resistant to most oils, greases, alcohol-free benzines and kerosene</li> <li>• Silicone free</li> <li>• RoHS compliant</li> </ul>

## Construction

28.04.2017 – Subject to technical modification

Part-No. 116417

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SYSTEMATIC TECHNOLOGY

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Description	SILFLEX M (C) SERVO SIEMENS
Number of conductors/cross-section	(4G4+(2×1.5))
Jacket material	Special PVC
Jacket color	orange RAL 2003
Outer Ø	14 mm
Outer Ø	0.551 inches
Surface	adhesion-free matt
Weight	44.5 kg/100 m
Weight	299 Lbs/Mft
Cu-Index	27.5 kg/100 m
Cu-Index	185 Lbs/Mft

## Element 1

Element construction	4G4
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black with white print U/L1/C/L+ V/L2 W/L3/D/L green/yellow
Conductor marking standard	DIN EN 50334
Conductor insulation	TPM/PP

## Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	black white
Stranding	Conductors stranded in pairs
Element shielding	Braid shield optical cover approx. 85% Tinned copper wires

## overall construction

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Overall stranding	Elements stranded together
Overall wrapping	Non-woven material
Overall shield	Braid shield Tinned copper wires optical cover approx. 85%
Jacket characteristics	Flame-retardant self-extinguishing Silicone-free Oil resistant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant

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## Technical data

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Rated voltage $U_0/U$	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature according to UL	80 °C
Temperature range moving	-5 °C ... +80 °C
Temperature range fixed	-25 °C ... +80 °C
Minimum bending radius moving	10×D
Minimum bending radius fixed	6×D

### Element 1

Element construction	4G4
Insulation resistance at 20 °C	500 MΩ×km

### Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	500 MΩ×km

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## Approvals/Standards

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Approvals	cURus
UL style	AWM 2570
Conformity	CE RoHS
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 Part 1080 VW-1 UL FT1

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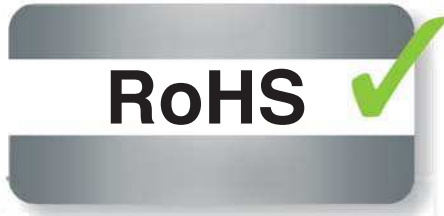
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## General

Note

CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU

## Symbols



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