

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

Identification	Type	SI M(C)Y SE(4G25+(2×1,5))UL 1KV OR
	Part-No.	116421
SIEMENS designation*	1BA25	

Use/Application/Characteristics

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

Construction

28.04.2017 – Subject to technical modification

Part-No. 116421

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Description	SILFLEX M (C) SERVO SIEMENS
Number of conductors/cross-section	(4G25+(2×1.5))
Jacket material	Special PVC
Jacket color	orange RAL 2003
Outer Ø	28.5 mm
Outer Ø	1.122 inches
Surface	adhesion-free matt
Weight	168.5 kg/100 m
Weight	1132 Lbs/Mft
Cu-Index	115.4 kg/100 m
Cu-Index	775 Lbs/Mft

Element 1

Element construction	4G25
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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SYSTEMATIC TECHNOLOGY

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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

Technical data

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	4G25
Insulation resistance at 20°C	500 MΩ×km

Element 2

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

Approvals/Standards

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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General

Note

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

Symbols



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