

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(4G6+(2×1,5))UL 1KV OR
	Part-No.	116418
SIEMENS designation*	1BA41	

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. 116418

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

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

Description	SILFLEX M (C) SERVO SIEMENS
Number of conductors/cross-section	(4G6+(2×1.5))
Jacket material	Special PVC
Jacket color	orange RAL 2003
Outer Ø	15.8 mm
Outer Ø	0.622 inches
Surface	adhesion-free matt
Weight	55.4 kg/100 m
Weight	372 Lbs/Mft
Cu-Index	35.3 kg/100 m
Cu-Index	237 Lbs/Mft

Element 1

Element construction	4G6
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

28.04.2017 – Subject to technical modification

Part-No. 116418

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

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	4G6
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

28.04.2017 – Subject to technical modification

Part-No. 116418

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

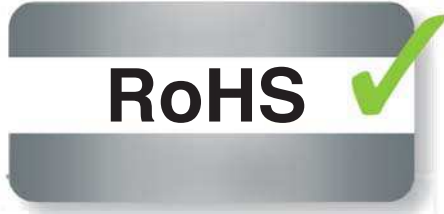
Technical data sheet · LÜTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV Motor/energy supply cable for Siemens and other systems

General

Note

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

Symbols



28.04.2017 – Subject to technical modification

Part-No. 116418

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