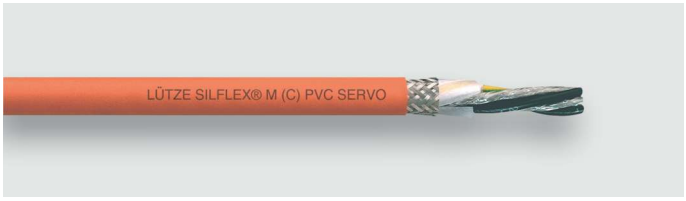
Technical data sheet

PVC servo cables · shielded

LUTZE SILFLEX® M (C) PVC SERVO 0.6/1 kV

Motor/energy supply cable for Siemens and other systems



Identification

Type	SI M (C) PVC SE (4G1,5) 0,6/1kV
Part No.	116424
SIEMENS designation*	1BB11

Product version

Datasheet version	01

Use/Application/Properties

Application	• For Siemens 6FX5008* standard system (and similar) • Termination cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology • Flexible design 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 lengths from inverter to motor • In dry and damp rooms • Especially for industrial environments in mechanical and system engineering
Properties	• Low capacitance for high dielectric strength • High protection against electromagnetic interferences (EMI) • PVC Flame-retardant, self-extinguishing • Orange RAL 2003 per DESINA • Largely resistant to oils, greases, alcohol-free benzines and kerosene • Silicone free

Construction

Description	SILFLEX® M (C) PVC SERVO 0.6/1 kV
Number of conductors/cross-section	(4G1.5)
Number of conductors	4
Cross-section, metric	1.5 mm²

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Cross-section AWG	AWG 16
Jacket material	Special PVC
Jacket color	orange similar to RAL 2003
Outer Ø	8.1 mm
Outer Ø	0.319 inch
Surface	adhesion-free, matte
Weight	12.1 kg/100 m
Weight	81.07 Lbs/Mft
Cu-Index	7.1 kg/100 m
Cu-Index	47.57 Lbs/Mft
Cable construction	Construction without signal pair

Construction Element 1

Element construction	(4G1.5)
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 insulation	TPE

Overall construction

Overall stranding	layered construction
Overall wrapping	Foil taping over the cable core 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 range moving	-5 °C … +80 °C
Temperature range fixed	-20 °C … +80 °C
Minimum bending radius moving	10×D
Minimum bending radius fixed	2.5×D

Technical Data Element 1

Element construction	(4G1.5)
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	max.85 pF/m
Operating capacitance wire-shield	max.155 pF/m

Certifications/Standards

Certifications	cURus
UL style	AWM 2570
Conformity	CE RoHS REACH
Burning behavior according to	DIN EN 60332-1-2 UL Cable Flame Test (UL 1581) CSA FT 1
Oil resistant according to	ISO 6722

General

Note	CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU * SIEMENS article designations are registered trademarks of SIEMENS AG