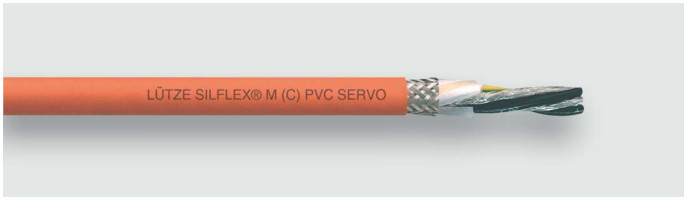
Technical data sheet

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 (4G2,5+(2×1,5)) 0,6/1kV
Part No.	116428
SIEMENS designation*	1BA21

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	(4G2.5+(2×1.5))
Number of conductors	6

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Cross-section AWG	AWG 14 AWG 16
Jacket material	Special PVC
Jacket color	orange similar to RAL 2003
Outer Ø	11.7 mm
Outer Ø	0.461 inch
Surface	adhesion-free
Weight	24.9 kg/100 m
Weight	166.83 Lbs/Mft
Cu-Index	19.5 kg/100 m
Cu-Index	131 Lbs/Mft
Cable construction	Construction with one signal pair (white, black)

Construction Element 1

Element construction	4G2.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 5 Finely stranded DIN VDE 0295 Class 5
Conductor marking	According to system manufacturer
Conductor insulation	TPE

Construction 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
Conductor insulation	TPE
Stranding	Conductors stranded in pairs
Element shielding	Braid shield optical cover approx. 85% tinned copper wires

Overall construction

Overall stranding	Elements stranded together Layer pitch optimised Conductors twisted without mechanical stress
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	4G2.5
Insulation resistance at 20 °C	≥1000 MΩ×km
Operating capacitance wire-wire	max.80 pF/m
Operating capacitance wire-shield	max.155 pF/m

Technical Data Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	≥1000 MΩ×km
Conductor resistance	≤9 Ω/km
Operating capacitance wire-wire	max.125 pF/m
Operating capacitance wire-shield	max.230 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