

Technical data sheet · LÜTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV High Flexing Motor Cable for Siemens and other systems For highest requirements



PUR servo cables · C-track compatible · shielded

Identification	Type	SU+M(C)P SE(4G2,5+(2×1,5))UL 1KV OR
	Part-No.	111421
SIEMENS designation*	1BA21	

Use/Application/Characteristics

Application	<ul style="list-style-type: none"> • Connection cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology • Due to optimized cable construction optimally suited for continuous flexing applications in C-tracks • Very good resistance against aggressive coolants and lubricants • Especially for industrial environments in mechanical and system engineering
Characteristics	<ul style="list-style-type: none"> • High active and passive interference resistance (EMC) • Braided shield optimised for continuous flexible use • Very good alternating bending strength • Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant • Hydrolysis-resistant, microbe-resistant, and rot-resistant • Weatherproof, ozone and UV resistant (normal lighting conditions) • Good ruggedness and salt water resistance • Excellent coolant and lubricant resistance • Resistant to most oils, greases, alcohol-free benzines and kerosene • Silicone free • RoHS compliant

28.04.2017 – Subject to technical modification

Part-No. 111421

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Construction

Description	SUPERFLEX+ M (C) PUR SERVO SIEMENS
Number of conductors/cross-section	(4G2.5+(2×1.5))
Jacket material	PUR
Jacket color	orange RAL 2003
Outer Ø	12.9 mm
Outer Ø	0.508 inches
Surface	adhesion-free matt
Weight	23.5 kg/100 m
Weight	158 Lbs/Mft
Cu-Index	19.3 kg/100 m
Cu-Index	130 Lbs/Mft

Element 1

Element construction	4G2.5
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295
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	Special TPE

Element 2

Element construction	(2×1.5)
Conductor	CU-wire bare
Conductor category	IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6
Conductor marking	black white
Conductor insulation	Special TPE
Stranding	Conductors stranded in pairs
Wrapping	Foil taping

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SYSTEMATIC TECHNOLOGY

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Element shielding	Braid shield
overall construction	
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 grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free

Technical data

Rated voltage U_0/U	600/1000 V
Rated voltage UL	1000 V
Test voltage type	AC 4000 V
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	$7.5 \times D \leq 16 \text{ mm}^2$
Minimum bending radius fixed	$5 \times D$
Bending cycles	$\geq 5 \text{ Mio}$
Travel distance	$\leq 50 \text{ m}$
Speed	50 m/s
Acceleration	50 m/s ²

Element 1

Element construction	4G2.5
Insulation resistance at 20 °C	500 MΩ×km
Operating capacitance Ader-Ader	105 pF/m
Operating capacitance wire-shield	185 pF/m

Element 2

Element construction	(2×1.5)
Insulation resistance at 20 °C	500 MΩ×km
Operating capacitance Ader-Ader	120 pF/m
Operating capacitance wire-shield	210 pF/m

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Approvals/Standards

Approvals	cURus
UL style	AWM 21223
Conformity	CE RoHS REACH
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
Halogen free according to	DIN EN 60754-1 IEC 60754-1

General

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

Symbols



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