

PUR c-track cables · For highest requirements

LÜTZE SUPERFLEX® PLUS M (C) PUR 0.6/1kV Motor/Power supply cable



Application

- Motor connection cable, especially for frequency converters and SERVO drives
- Through full PUR jacket and TPE / HGI cable insulation optimally suited for c-tracks, extremely harsh operating conditions, aggressive coolants and lubricants
- For travel paths over 40 m, we recommend conductors with inside jacket

Properties

- 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
- Weathering, ozone and UV resistant (normal lighting conditions)
- Good resistance to use and salt water
- Excellent coolant and lubricant resistance
- Largely resistant to oils, greases, alcohol-free benzines and kerosene (see tech. information)
- Free from paint wetting impairment substances (LABS-free), RoHS-compliant

Technical data

UL approval 1000 V 80 °C

Voltage U_0/U 0.6/1 kV

Test voltage 4000 V

Insulation resistance min. 500 MΩ × km

Temperature range
moving -25 °C to +80 °C
fixed -40 °C to +80 °C

Minimum bending radius
moving Cable diameter × 10
fixed Cable diameter × 6

Burning behaviour Flame-retardant according to VDE 0482 part 265-2; DIN EN 50265-2; IEC 60332-1; UL 1581 section 1080 VW-1; CSA FT 1

Halogen-free according to DIN EN 202641-1, EN 50267-2-1, EN 60684-2

Design

- Bare copper wire, multi-strand according to DIN VDE 0295 or IEC 60228
- Special TPE/HGI conductor insulation, UL qualified
- Conductor labelling Power conductors black with number print U/L1/C/L+; V/L2; W/L3/D/L-
- Ground conductor greenyellow according to DIN EN 50334
G = with greenyellow ground conductor; × = without ground conductor
- Conductors twisted without mechanical stress, layer pitch optimised
- Non-woven material over stranded cable
- Inside jacket TPE (optional)
- Meshwork from tinned copper wire braid, optical covering ≥ 85 %
- Full polyurethane jacket, matt, adhesion-free surface
- Jacket colour orange RAL 2003

Part-No.	Number of strands/cross-section	Outer-Ø approx. mm	Weight kg/100 m	Cu-Index kg/100 m
Design without inside jacket				
111496	(4G1.0)	9.5	12.2	6.5
111460	(4G1.5)	8.0	11.7	7.7
111461	(4G2.5)	9.6	17.3	12.0
111462	(4G4)	11.1	24.5	18.8
111463	(4G6)	13.4	36.5	29.0
111464	(4G10)	16.7	54.9	45.1
111465	(4G16)	20.4	84.9	71.1
111466	(4G25)	25.0	129.9	110.0
111467	(4G35)	28.3	169.2	151.0
111468	(4G50)	33.3	244.2	213.0
Design with inside jacket				
111480	(4G1.5)	10.0	16.0	8.3
111481	(4G2.5)	11.7	22.1	12.6
111482	(4G4)	13.3	32.1	20.2
111483	(4G6)	15.3	41.2	27.0
111484	(4G10)	17.9	62.8	45.5
111485	(4G16)	21.7	97.8	71.5
111486	(4G25)	26.3	144.5	109.3
111487	(4G35)	31.0	200.4	149.8

CE These products are in conformity to the EC Low Voltage Directive 73/23/EWG or 93/68/EWG respectively

PUR c-track cables · For highest requirements

LÜTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1kV Supply Line Motor/Brake



Application

- Termination cable motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology
- Through full PUR jacket and TPE / HGI cable insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants
- Especially for industrial environments, machines and plants

Properties

- High active and passive interference resistance (EMC)
- Braided shield optimised for flexible use
- Very good alternating bending strength
- Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant
- Weathering, ozone and UV resistant (normal lighting conditions)
- Good resistance to use and salt water
- Excellent coolant and lubricant resistance
- Largely resistant to oils, greases, alcohol-free benzines and kerosene (see tech. information)
- Free from paint wetting impairment substances (LABS-free), RoHS-compliant

Technical data

UL approval	1000 V 80 °C
Voltage	
VDE U ₀ /U	0.6/1 kV
Test voltage	4000 V
Insulation resistance	min. 500 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	Cable diameter × 10
fixed	Cable diameter × 6
Burning behaviour	Flame-retardant according to VDE 0482 part 265-2; IEC 60332-1; UL 1581 section 1080 VW-1; CSA FT 1
Halogen-free	according to DIN EN 202641-1, EN 50267-2-1, EN 60684-2

Design

- Bare copper wire, superfine strand according to DIN VDE 0295 Kl. 6 or IEC 60228 cl. 6
- Special TPE/HGI conductor insulation, UL qualified
- Power conductors black with number print U/L1/C/L+; V/L2; W/L3/D/L-
- Ground conductor greenyellow according to DIN EN 50334
G = with greenyellow ground conductor; × = without ground conductor
- Control pair(s) (black; white) or (5,6) (7,8)
Control quads: (black; white; red; yellow)
Three-way element: Number print (1, 2, 3)
Control pair(s)/Control quads with braided shield and foil banding
- Conductors twisted without mechanical stress, layer pitch optimised
- Non-woven material over stranded cable
- Meshwork from tinned copper wire braid, optical covering ≥ 85 %
- Full polyurethane jacket, matt, adhesion-free surface
- Jacket colour Orange RAL 2003; Petrol RAL 5018

Part-No.	Number of strands/cross-section	Outer-Ø approx. mm	Weight kg/100 m	Cu-Index kg/100 m
Design with control pair				
111439	(4G1.0 + (2×0.5))	9.4	15.5	9.3
111469	(4G1.0+(2×0.75))	9.6	14.5	8.1
111420	(4G1.5+(2×1.5))	10.5	21.0	13.5
111421	(4G2.5+(2×1.5))	12.1	23.5	17.5
111422	(4G4+(2×1.5))	13.6	32.0	25.4
111423	(4G6+(2×1.5))	15.5	43.0	34.3
111424	(4G10+(2×1.5))	18.8	68.0	50.5
111425	(4G16+(2×1.5))	22.1	86.0	77.2
111426	(4G25+(2×1.5))	25.8	136.5	115.0
111427	(4G35+(2×1.5))	29.0	274.6	157.0
111428	(4G50+(2×1.5))	33.3	373.7	218.0
Without UL approval, jacket colour petrol RAL 5018				
111400	(4G1.5 + (2×1.5))	19.0	16.0	11.2
111401	(4G2.5 + (2×1.5))	11.4	21.1	15.5
111402	(4G4.0 + (2×1.5))	12.9	28.8	22.1
Design with two control pairs				
111270	(4G1.0+2×(2×0.75)StC)	11.6	23.2	14.0
111271	(4G1.5+2×(2×0.75)StC)	12.5	25.5	16.2
111272	(4G2.5+2×(2×0.75)StC)	13.5	31.9	21.5
111279	(4G×2.5+2×(2×1.0)StC)	13.7	33.0	23.0
111273	(4G4+2×(2×1.0)StC)	15.6	41.1	28.8
111280	(4G4+2×(2×1.5)StC)	16.0	45.4	33.8
111274	(4G6+2×(2×1.0)StC)	16.4	51.2	36.8
111281	(4G6+2×(2×1.5)StC)	17.9	54.0	39.5
111275	(4G10+2×(2×1.0)StC)	19.3	73.0	56.9
111282	(4G10+2×(2×1.5)StC)	19.8	73.5	59.5
111276	(4G16+2×(2×1.5)StC)	23.2	106.4	82.3
111277	(4G25+2×(2×1.5)StC)	29.4	171.4	119.2
111278	(4G35+2×(2×1.5)StC)	32.0	217.6	158.8
Design with four-way element for linear drives, with inside jacket				
111530	(4G1.5+(4×0.5))	12.0	23.8	13.1
111531	(4G2.5+(4×0.5))	13.5	28.9	17.4
111532	(4G4+(4×0.5))	15.3	40.9	25.5
111533	(4G6+(4×0.5))	16.9	52.0	33.5
111534	(4G10+(4×0.5))	19.9	73.9	50.8
111535	(4G16+(4×0.5))	22.3	100.9	74.9
Design with three-way element, with inside jacket				
111560	(4G1.5+(3×1.0))	15.5	35.3	16.5
111561	(4G2.5+(3×1.0))	16.5	43.3	20.2
111562	(4G4+(3×1.0))	17.6	54.8	25.5
111563	(4G6+(3×1.0))	18.8	72.3	33.5
111564	(4G10+(3×1.0))	20.2	109.5	51.0

CE These products are in conformity to the EC Low Voltage Directive 73/23/EWG or 93/68/EWG respectively