

# 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 <sub>0</sub> /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
<b>Design without inside jacket</b>				
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
<b>Design with inside jacket</b>				
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 <sub>0</sub> /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

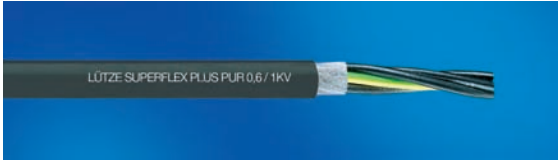
- Bare copper wire, superfine strand according to DIN VDE 0295 Kl. 6 or IEC 60228 cl. 6
- Special TPE/HGI conductor insulation, UL qualified
- Power conductors black with number print U/L1/C/L+; V/L2; W/L3/D/L-
- Ground conductor greenyellow according to DIN EN 50334  
G = with greenyellow ground conductor; × = 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
<b>Design with control pair</b>				
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
<b>Without UL approval, jacket colour petrol RAL 5018</b>				
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
<b>Design with two control pairs</b>				
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
<b>Design with four-way element for linear drives, with inside jacket</b>				
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
<b>Design with three-way element, with inside jacket</b>				
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

# PUR c-track cables · For highest requirements

## LÜTZE SUPERFLEX® PLUS M PUR 0.6/1 kV Motor/Power supply cable



### Application

- Motor connection cable, specifically for machine and device construction, transport and conveyor technology
- Through full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely harsh operating conditions and aggressive coolants and lubricants
- Especially for industrial environments, machines and plants

### Properties

- 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 <sub>0</sub> /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 × 7.5
fixed	Cable diameter × 4
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, superfine strand according to DIN VDE 0295 Kl. 6 or IEC 60228 cl. 6
- Special TPE/HGI conductor insulation, UL qualified
- Conductors black with white imprint
- 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
- Full polyurethane jacket, matt, adhesion-free surface
- Jacket colour black RAL 9005

Part-No.	Number of strands/cross-section	Outer-Ø approx. mm	Weight kg/100 m	Cu-Index kg/100 m
111370	4G1.5	7.7	12.1	5.8
111371	4G2.5	9.3	14.3	9.6
111372	4G4	10.8	23.3	15.4
111373	4G6	12.9	32.8	23.1
111374	4G10	15.5	52.5	38.4
111375	4G16	18.8	99.0	61.4
111376	4G25	23.7	120.0	96.0
111377	4G35	26.6	185.0	134.4
111378	4G50	31.8	245.0	192.0
111545	5G4	12.1	28.5	19.4
111430	5G6	14.5	40.0	28.9
111429	5G10	18.2	75.0	49.0
111548	5G16	20.8	116.6	76.8
111549	5G25	26.3	148.0	121.0

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# PUR c-track cables · For highest requirements

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



### Application

- Performance cable, specifically for machine and device construction for transport and conveyor technology
- As motor supply or ground conductor
- Through full PUR jacket and TPE cable insulation optimally suited for c-tracks, extremely harsh operating conditions, aggressive coolants and lubricants
- Especially for industrial environments, machines and plants

### Properties

- Flame-retardant, self-extinguishing
- halogen-free, no corrosive gases
- 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
- Free from paint wetting impairment substances (LABS-free), RoHS-compliant

### Technical data

UL approval	1000 V 80 °C
Voltage	
U <sub>0</sub> /U	0.6/1 kV
Test voltage	4000 V
Insulation resistance	min. 200 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	Cable diameter × 7.5
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 50264-1; EN 50267-2-1 and EN 60684-2

### Design

- Bare copper wire, finest multi-strand according to DIN VDE 0295 class 6, IEC 60228 class 6
- Special TPE conductor insulation, UL qualified
- Meshwork shielding (optional) from galvanised Cu wire, optical covering ≥ 85 %
- Full polyurethane jacket, matt, adhesion-free surface
- Jacket colour black RAL 9005; green/yellow upon request

Part-No.	Number of strands/cross-section/ strand colours	Outer-Ø approx. mm	Weight kg/100 m	Cu-Index kg/100 m
<b>Without shield, black</b>				
111135	1×4	6.4	6.6	3.7
111136	1×6	7.1	9.0	5.6
111126	1×10	8.4	13.8	9.3
111127	1×16	9.8	20.5	14.8
111128	1×25	11.4	30.6	23.3
111129	1×35	13.4	43.1	32.6
111130	1×50	15.2	57.2	47.8
111131	1×70	16.6	78.3	64.5
111132	1×95	19.2	104.3	88.8
111133	1×120	22.2	130.2	120.0
<b>Without screen, insulation and jacket green/yellow</b>				
111242	1×4	6.4	6.6	3.7
111241	1×6	7.1	9.0	5.6
111243	1×10	8.4	13.8	9.3
111197	1×16	9.8	20.5	14.8
111337	1×25	11.4	30.6	23.3
111285	1×35	13.4	43.1	32.6
<b>With CU shield, black</b>				
111287	(1×4)	7.0	8.6	5.5
111288	(1×6)	7.7	11.5	7.7
111289	(1×10)	9.0	17.1	12.1
111290	(1×16)	10.4	24.1	18.1
111291	(1×25)	12.0	35.3	27.3
111292	(1×35)	14.0	48.1	37.3
111293	(1×50)	15.8	63.1	53.1
111294	(1×70)	17.4	85.3	70.6
111295	(1×95)	20.2	114.6	98.0
111296	(1×120)	23.4	143.1	132.0

CE These products are in conformity with the EU Low Voltage Directive 2006/95/EC