

PUR C-track cables · For the highest requirements

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



halogenfree

HGI insulation,
low capacity

CALUS



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 continuous flexible use
- Very good alternating bending strength
- Good pressure and roll-over resistance
- Low adhesion, abrasion-proof, nick-resistant, tear-propagation-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant
- Weathering, ozone and UV resistant (normal lighting conditions)
- Good acid and salt water resistance
- Excellent coolant and lubricant resistance
- Widely resistant to oils, greases, alcohol-free benzines and kerosene (see tech. information)
- Free from paint wetting disruptive substances (LABS-free), RoHS-compliant

Technical data

UL approval	1000 V 80 °C
Voltage	
VDE U ₀ /U	600/1000 V
UL	1000 V
Test voltage	4000 V
Isolation resistance	min. 100 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
Radiation-resistance	5×10 ⁷ cJ/kg
Burning behaviour	Flame-retardant according to VDE 0482 T 265-2-1; IEC 60332-1, UL 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 number print according to DIN EN 50334
- Ground conductor green/yellow according to DIN EN 50334 i. d. Outer layer
- 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; request: 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				
111420	(4×1,5+(2×1,5))	10.5	21.0	15.0
111421	(4×2,5+(2×1,5))	12.1	23.5	19.0
111422	(4×4+(2×1,5))	13.6	32.0	27.0
111423	(4×6+(2×1,5))	15.5	43.0	34.9
111424	(4×10+(2×1,5))	18.3	68.0	51.8
111425	(4×16+(2×1,5))	21.4	86.0	76.6
111426	(4×25+(2×1,5))	25.7	136.5	114.0
111427	(4×35+(2×1,5))	29.9	274.6	153.3
111428	(4×50+(2×1,5))	33.2	373.7	217.7
Design with two control pairs				
111270	(4×1,0+2×(2×0,75)StC)	11.6	23.2	14.0
111271	(4×1,5+2×(2×0,75)StC)	12.5	25.5	16.2
111272	(4×2,5+2×(2×0,75)StC)	13.5	31.9	21.5
111279	(4×2,5+2×(2×1,0)StC)	13.7	33.0	23.0
111273	(4×4+2×(2×1,0)StC)	15.6	41.1	28.8
111280	(4×4+2×(2×1,5)StC)	16.0	45.4	33.8
111274	(4×6+2×(2×1,0)StC)	16.4	51.2	36.8
111281	(4×6+2×(2×1,5)StC)	17.9	54.0	39.5
111275	(4×10+2×(2×1,0)StC)	19.3	73.0	56.9
111282	(4×10+2×(2×1,5)StC)	19.8	73.5	59.5
111276	(4×16+2×(2×1,5)StC)	23.2	106.4	82.3
111277	(4×25+2×(2×1,5)StC)	29.4	171.4	119.2
111278	(4×35+2×(2×1,5)StC)	32.0	217.6	158.8

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 the highest requirements

LÜTZE-SUPERFLEX® PLUS (C) PUR SERVO Feedback typical capacitance wires cULus



halogenfree



Application

- Incremental encoder cable, termination cable for tacho sensor, brake sensor, speed sensor
- 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

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

Technical data

UL-Style	300 V 80 °C
Voltage	
UL	300 V
Test voltage	3000 V
Isolation resistance	min. 200 MΩ × km
Betriebskapazität bei 800 Hz	
Strand/Strand	approx. 135 pF/m
Inductance	approx. 0.65 µH/m
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	Cable diameter × 12
fixed	Cable diameter × 6
Burning behaviour	Flame-retardant according to VDE 0482 section 265, IEC 60332-1, UL VW-1; CSA FT 1

Design

- Bare copper wire, finest multi-strand according to DIN VDE 0295 class 6, IEC 60228 class 6
- Special TPE conductor insulation, UL qualified
- Colour coded wires
- 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 green RAL 6018 or orange RAL 2003

Part-No.	Number of strands/cross-section/ strand colours	Jacket colour	Outer-∅ approx. mm	Weight kg/100 m	Cu-Index kg/100 m
For Heidenhain System					
111476	(4×0,5+4×2×0,14+(4×0,14)StC) 0.5: white, blue, brown/green, white-green 4×2×0.14: yellow/violet, grey/pink, brown/green, red/black (4×0.14): green/black, blue/black, yellow/black, red/black	black	8.0	12.3	6.1
111459	(2×(0,5)+3×(2×0,14)) 0.5: black, red 0.14: black/brown, red/orange, green/yellow	green	8.7	10.4	7.5
For Indramat System					
109208	(2×1,0+4×2×0,25) 0.5: white, brown 0.25: brown/green, grey/pink, blue/violet, red/black	orange	8.8	11.0	6.6
110940	(9×0,5) Strand colour according to DIN 47100	orange	8.8	12.5	6.0
111139	(2×0,5+10×0,14) 0.5: white, brown 0.14: white, brown, green, yellow, grey, pink, blue, red, black, violet	orange	6.9	7.0	4.2
For Siemens system					
111452	(2×2×0,18) black, red, orange, brown Star quad	green	5.0	4.2	2.2
111453	(4×2×0,18) black/brown, red/orange, green/yellow, blue/violet	green	6.4	7.6	3.2
111412	(8×2×0,18) black/brown, red/orange, yellow/green, blue/violet, grey/white, white/black/whitebrown, whitered/whiteorange, whitegreen/whiteyellow	green	8.8	13.1	7.3
111454	(12×0,23) black, brown, red, orange, green, yellow, blue, violet, grey, white, whiteblack, whitebrown	green	6.7	8.5	4.7
111455	(4×0,5+4×2×0,14) 0.5: white, blue, whitegreen, brown-green 0.14: yellow/violet; grey/pink; white/green; brown/green	green	8.0	9.0	4.9
111456	(4×0,5+4×2×0,38) 0.5: whiteblue, whiteblack, whitered, whiteyellow 0.38: black/brown, red/orange, green/yellow, blue/violet	green	9.2	13.2	8.6
111457	(2×0,5+3×(2×0,14)+4×0,23+4×0,14) 0.5: brownblue, brownred 0.23: greenblack, greenred, brownyellow, browngrey (0.14) black/brown, red/orange, yellow/green 0.14: blue, grey, whiteblack, whiteyellow	green	10.3	15.3	9.3
111458	(2×0,5+3×(2×0,14)+4×0,14) 0.5: brownblue, brownred (0.14) black/brown, red/orange, green/yellow 0.14: blue, grey, whiteblack, whiteyellow	green	8.5	12.2	6.1

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