

PUR control cables - shielded

LÜTZE-SILFLEX® N (C)PUR, without inside jacket



Application

- Machine and device construction, transport and conveyor technology
- For flexible application with free movement
- Especially for industrial environments with high interference potential, in machines, plant and device construction
- In rooms with high concentrations of people or material assets

Properties

- High active and passive interference resistance
- Low capacitance, very good electrical properties
- Very good cold flexibility
- halogen-free, no corrosive gases
- 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 silicone paint wetting impairment substances (LABS-free), RoHS-compliant

Technical data

Voltage	
U ₀ /U	300/500 V
Test voltage	3000 V
Insulation resistance	min. 100 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	according to VDE 0298 table 6
Burning behaviour	Halogen-free according to DIN EN 20264-1, EN 50267-2-1, EN 60684-2

Design

- Bare copper braid, fine stranded according to DIN VDE 0295 class 5, IEC 60228 class 5
- Special Thermoplast conductor insulation (21Y)
- Conductors black with white number print according to DIN EN 50334
- Ground conductor green/yellow according to DIN EN 50334 in the top layer
G = with green/yellow ground conductor; × = without ground conductor
- Conductors stranded layers
- Meshwork from tinned copper wire braid, optical covering ≥ 85 %
- Full polyurethane jacket, matt, adhesion-free surface
- Jacket colour grey RAL 7001

Part-No.	Number of strands/cross-section	Outer-∅ approx. mm	Weight kg/100 m	Cu-Index kg/100 m
0.5 mm²				
111651	(2×0.5)	5.2	3.8	2.3
111652	(3G0.5)	5.5	4.5	2.8
111653	(4G0.5)	5.9	6.0	3.7
111654	(5G0.5)	6.5	7.0	4.8
111656	(7G0.5)	7.2	9.1	5.6
111657	(12G0.5)	9.3	14.6	9.0
111658	(18G0.5)	11.0	20.6	12.4
111659	(25G0.5)	13.1	28.9	17.8
0.75 mm²				
111660	(2×0.75)	5.6	4.7	2.8
111661	(3G0.75)	6.0	6.0	3.9
111662	(4G0.75)	6.5	7.2	4.6
111663	(5G0.75)	7.2	9.2	5.8
111664	(7G0.75)	7.8	11.8	7.4
111665	(12G0.75)	10.3	18.4	11.9
111666	(18G0.75)	12.2	26.6	17.2
111667	(25G0.75)	14.5	37.2	24.6
1.0 mm²				
111668	(2×1.0)	6.0	5.7	3.7
111669	(3G1.0)	6.3	6.9	4.6
111670	(4G1.0)	6.8	8.8	6.1
111671	(5G1.0)	7.6	10.6	7.1
111672	(7G1.0)	8.2	13.5	9.5
111673	(12G1.0)	10.9	22.0	15.3
111674	(18G1.0)	13.3	33.5	23.1
111675	(25G1.0)	15.3	43.7	30.6
1.5 mm²				
111676	(2×1.5)	6.6	7.0	4.7
111677	(3G1.5)	7.0	9.4	6.6
111678	(4G1.5)	7.6	11.4	8.1
111679	(5G1.5)	8.6	14.4	10.0
111680	(7G1.5)	9.3	18.2	13.4
111681	(12G1.5)	12.3	29.6	21.5
111682	(18G1.5)	15.0	45.2	32.6
111683	(25×1.5)	17.4	59.8	43.4
2.5 m²				
111684	(3G2.5)	8.6	13.9	10.1
111685	(4G2.5)	9.3	17.6	12.9
111686	(5G2.5)	10.4	21.4	15.3
111687	(7G2.5)	11.5	27.8	20.5
111648	(12G2.5)	15.4	47.4	35.4
111649	(18G2.5)	18.3	69.6	51.5
111650	(25G2.5)	21.3	93.0	70.0
4 – 6 mm²				
111688	(4G4)	11.0	25.7	19.1
111690	(4G6)	13.4	38.3	28.9

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