

PUR control cables · unshielded

LÜTZE-SILFLEX® N PUR



Application

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

Properties

- 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
- 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				
110437	2×0.5	4.5	2.6	1.0
110196	3G0.5	4.7	3.2	1.5
110457	4G0.5	5.1	4.0	1.9
110372	5G0.5	5.9	5.2	2.4
111016	7G0.5	6.4	6.6	3.4
111707	12G0.5	8.7	11.8	5.8
110644	18G0.5	10.4	17.2	8.6
110459	25G0.5	12.1	23.6	12.0
0.75 mm²				
110168	2×0.75	5.0	3.3	1.4
110197	3G0.75	5.3	4.2	2.2
110169	4G0.75	5.8	5.5	2.9
110991	5G0.75	6.4	6.7	3.6
110424	7G0.75	7.2	8.9	5.0
110506	12G0.75	9.5	15.4	8.6
110992	18G0.75	11.6	23.0	13.0
110526	25G0.75	13.5	31.6	18.0
1.0 mm²				
110443	2×1.0	5.2	3.9	2.0
110182	3G1.0	5.8	5.3	2.9
110418	4G1.0	6.3	6.6	3.8
110184	5G1.0	6.8	8.1	4.8
110185	7G1.0	7.7	10.8	6.7
110188	12G1.0	10.3	19.0	11.5
110189	18G1.0	12.3	27.9	17.3
110191	25G1.0	14.5	38.7	24.0
1.5 mm²				
110250	2×1.5	5.9	5.5	2.9
110177	3G1.5	6.4	7.1	4.3
110186	4G1.5	7.1	9.3	5.8
110178	5G1.5	7.8	11.4	7.2
110179	7G1.5	8.7	15.1	10.1
110180	12G1.5	11.7	26.6	17.3
110181	18G1.5	14.0	39.0	25.9
110183	25G1.5	16.4	53.9	36.0
2.5 mm²				
111102	3G2.5	7.8	11.4	7.2
110192	4G2.5	8.7	14.7	9.6
110193	5G2.5	9.6	18.1	12.0
110194	7G2.5	10.7	24.1	16.8
110975	12G2.5	14.6	42.8	28.8
4 – 6 mm²				
110195	4G4	10.5	22.4	15.4
110450	4G6	12.4	32.4	23.0

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