

PUR control cables · HALOGEN-FREE

LÜTZE-SILFLEX® N PUR



halogenfree

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
- For high safety requirements in the event of fire

Properties

- Low capacitance, very good electrical properties
- Very good cold flexibility
- halogen-free, no corrosive gases
- 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
- Free from silicon and paint wetting disruptive substances (LABS-free), RoHS-compliant

Technical data

Voltage	
U ₀ /U	300/500 V
Test voltage	3000 V
Isolation 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	Flame-retardant according to UL 94 V2 Halogen-free according to DIN EN 20264-1; EN 50267-2-1; EN 60684-2

Design

- Bare copper wire, finest multi-strand 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
- Conductors stranded layers
- Full polyurethane jacket
- Jacket colour grey RAL 7001

Part-No.	Number of strands/cross-section	Outer-Ø approx. mm	Weight kg/100 m	Cu-Index kg/100 m
0.5 mm²				
110437	2×0,5 OZ	4.5	2.7	1.0
110196	3×0,5	4.8	3.3	1.4
110457	4×0,5	5.3	4.3	2.0
110372	5×0,5	5.7	5.2	2.4
111016	7×0,5	6.2	6.3	3.4
111707	12×0,5	8.3	10.3	5.8
110644	18×0,5	9.8	15.3	8.6
110459	25×0,5	11.6	21.1	12.0
0.75 mm²				
110168	2×0,75	5.0	3.6	1.4
110197	3×0,75	5.4	4.5	2.2
110169	4×0,75	5.8	5.7	2.9
110991	5×0,75	6.4	6.9	3.6
110424	7×0,75	6.9	8.5	5.0
110506	12×0,75	9.2	14.0	8.6
110992	18×0,75	11.0	21.0	13.0
110526	25×0,75	13.2	29.5	18.0
1.0 mm²				
110182	3×1,0	5.7	5.5	2.9
110418	4×1,0	6.2	7.0	3.8
110184	5×1,0	6.8	8.5	4.8
110185	7×1,0	7.5	10.7	6.7
110188	12×1,0	10.0	17.8	11.5
110189	18×1,0	12.0	26.7	17.3
110191	25×1,0	14.1	36.8	24.0
1.5 mm²				
110177	3×1,5	6.4	7.4	4.3
110186	4×1,5	6.9	9.6	5.8
110178	5×1,5	7.7	11.8	7.2
110179	7×1,5	8.5	15.0	10.1
110180	12×1,5	11.4	24.9	17.3
110181	18×1,5	13.7	37.7	25.9
110183	25×1,5	16.1	51.9	36.0
2.5 mm²				
111102	3×2,5	7.4	11.3	7.2
110192	4×2,5	8.2	14.8	9.6
110193	5×2,5	9.2	18.5	12.0
110194	7×2,5	10.2	23.8	16.8
110975	12×2,5	13.6	39.5	28.8
4 – 6 mm²				
110195	4×4	10.2	23.4	15.4
110450	4×6	12.3	34.3	23.0

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

LÜTZE-SILFLEX® is a registered trademark in the USA