

PUR control cables · HALOGEN-FREE

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



halogenfree

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
- For high safety requirements in the event of fire

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-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
- Meshwork from tinned copper wire braid, optical covering ≥ 85 %
- 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				
111651	(2×0,5) OZ	5.2	3.8	2.4
111652	(3×0,5)	5.5	4.5	3.0
111653	(4×0,5)	5.9	5.5	3.6
111654	(5×0,5)	6.3	6.4	4.3
111656	(7×0,5)	6.9	8.0	5.8
111657	(12×0,5)	9.0	11.2	8.8
111658	(18×0,5)	10.5	17.9	12.5
111659	(25×0,5)	12.4	24.4	16.7
0.75 mm²				
111660	(2×0,75) OZ	5.6	4.5	3.0
111661	(3×0,75)	6.0	5.7	3.9
111662	(4×0,75)	6.5	7.0	4.9
111663	(5×0,75)	7.0	8.3	5.8
111664	(7×0,75)	7.6	10.3	7.6
111665	(12×0,75)	9.5	16.5	12.3
111666	(18×0,75)	11.2	23.6	17.5
111667	(25×0,75)	13.8	32.4	23.6
1.0 mm²				
111668	(2×1,0) OZ	6.0	6.3	3.7
111669	(3×1,0)	6.3	6.7	4.8
111670	(4×1,0)	6.8	8.3	6.0
111671	(5×1,0)	7.5	10.0	7.3
111672	(7×1,0)	8.1	12.3	9.6
111673	(12×1,0)	10.6	20.3	15.6
111674	(18×1,0)	12.6	29.4	22.5
111675	(25×1,0)	14.8	40.3	31.1
1.5 mm²				
111676	(2×1,5) OZ	6.6	6.8	4.9
111677	(3×1,5)	7.0	8.7	6.6
111678	(4×1,5)	7.6	11.0	8.4
111679	(5×1,5)	8.3	13.2	12.2
111680	(7×1,5)	9.1	16.9	13.6
111681	(12×1,5)	12.1	27.9	22.3
111682	(18×1,5)	14.4	41.1	33.0
111683	(25×1,5)	16.8	55.7	44.8
2.5 mm²				
111684	(3×2,5)	8.2	12.7	10.1
111685	(4×2,5)	8.8	16.1	12.9
111686	(5×2,5)	9.8	19.9	15.8
111687	(7×2,5)	10.8	25.9	21.3
111648	(12×2,5)	14.3	43.1	36.1
111649	(18×2,5)	17.0	63.1	52.6
111650	(25×2,5)	20.5	89.1	74.4
4 – 6 mm²				
111688	(4×4)	11.0	25.0	19.8
111690	(4×6)	12.9	35.1	28.0

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