

PUR c-track cables · For highest requirements

LÜTZE SUPERFLEX® TRONIC (C)PUR



Application

- Robots, energy supply chains as well as everywhere where signals are transmitted to continuously moving system or machine parts
- Machine and device construction, transport and conveyor technology, heating, climate technology
- In dry and moist rooms
- As monitoring, measurement and control cable for continuous bending loads with the highest service life requirements
- Especially for industrial environments with high interference potential in machine, plant and device construction

Properties

- High active and passive interference resistance
- Braided shield optimised for continuous flexible use
- Low capacitance, very good electrical properties
- Flame-retardant, self-extinguishing
- halogen-free, no corrosive gases
- Very good alternating bending strength
- Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant
- Good resistance to use and salt water
- Excellent coolant and lubricant resistance
- Largely resistant to oils, greases, alcohol-free benzines and kerosene
- Free from paint wetting impairment substances (LABS-free)
- RoHS-compliant

Technical data

UL approval	300 V 80 °C
Rated voltage	300 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	
moving	Cable diameter × 12
fixed	Cable diameter × 6
Burning behaviour	Flame-retardant according to VDE 0482 part 265-2; DIN EN 50265-2; IEC 60332-1; UL 1581 section VW-1Flame-Test
Halogen-free	according to DIN EN 50264-1; EN 50267-2-1; EN 60684-2

Design

- Bare copper wire, finest multi-strand according to DIN VDE 0295 class 6, IEC 60228 class 6
- Special-TPE conductor insulation
- Conductor labelling Conductors colour-coded according to DIN 47100
- 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 grey RAL 7001

Part-No.	Number of strands/cross-section	Outer-Ø approx. mm	Weight kg/100 m	Cu-Index kg/100 m
0.14 mm²				
117090	(2×0.14)	4.0	2.3	1.1
117091	(3×0.14)	4.3	2.5	1.3
117092	(4×0.14)	4.5	2.9	1.5
117093	(5×0.14)	4.7	3.2	1.7
117094	(7×0.14)	5.4	4.1	2.2
117095	(10×0.14)	6.2	5.0	2.8
117096	(12×0.14)	6.4	5.5	3.1
117097	(18×0.14)	7.3	7.2	4.3
117098	(25×0.14)	8.7	9.5	5.6
0.25 mm²				
117099	(2×0.25)	4.3	2.7	1.3
117100	(3×0.25)	4.5	3.0	1.7
117101	(4×0.25)	4.9	3.5	2.0
117102	(5×0.25)	5.1	4.0	2.3
117103	(7×0.25)	5.9	5.0	3.1
117104	(10×0.25)	6.7	6.4	4.1
117105	(12×0.25)	7.2	7.1	4.7
117106	(18×0.25)	8.2	9.5	6.4
117107	(25×0.25)	9.4	12.8	8.5
0.34 mm²				
117108	(2×0.34)	4.5	3.0	1.6
117109	(3×0.34)	4.7	3.4	2.0
117110	(4×0.34)	5.1	4.0	2.4
117111	(5×0.34)	5.4	4.6	2.8
117112	(7×0.34)	6.2	5.8	3.7
117113	(10×0.34)	7.0	7.5	5.0
117114	(12×0.34)	7.3	8.4	5.7
117115	(18×0.34)	8.5	11.5	8.0
117116	(25×0.34)	9.6	16.0	11.5

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

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- Especially for industrial environments with high interference potential in machine, plant and device construction

Properties

- High active and passive interference resistance
- High crosstalk attenuation through paired stranding
- Braided shield optimised for continuous flexible use
- Low capacitance, very good electrical properties
- Flame-retardant, self-extinguishing
- Halogen-free, no corrosive gases
- Very good alternating bending strength
- Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant
- Good resistance to use and salt water
- Excellent coolant and lubricant resistance
- Largely resistant to oils, greases, alcohol-free benzines and kerosene
- Free from paint wetting impairment substances (LABS-free)
- RoHS-compliant

Technical data

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Minimum bending radius

moving	Cable diameter × 12
fixed	Cable diameter × 6

Burning behaviour

Flame-retardant according to VDE 0482 part 265-2
DIN EN 50265-2;
IEC 60332-1;
UL 1581 section VW-1Flame-Test
according to DIN EN 50264-1;
EN 50267-2-1; EN 60684-2

Halogen-free

Design

- Bare copper wire, finest multi-strand according to DIN VDE 0295 class 6, IEC 60228 class 6
- Special-TPE conductor insulation
- Conductor labelling Conductors colour-coded according to DIN 47100
- Zero-potential paired stranding, 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 grey RAL 7001

Part-No.	Number of strands/cross-section	Outer-Ø approx. mm	Weight kg/100 m	Cu-Index kg/100 m
0.25 mm²				
117170	(2×2×0.25)	6.3	8.2	2.2
117171	(3×2×0.25)	6.6	9.1	2.8
117172	(4×2×0.25)	6.8	10.3	3.4
117173	(5×2×0.25)	7.5	11.7	4.0
117177	(6×2×0.25)	8.1	13.1	4.7
117174	(8×2×0.25)	9.4	16.0	6.0
117175	(10×2×0.25)	10.5	19.1	7.9
117176	(12×2×0.25)	10.8	20.7	9.1
0.34 mm²				
117180	(2×2×0.34)	6.6	9.2	2.6
117181	(3×2×0.34)	6.9	10.2	3.4
117182	(4×2×0.34)	7.4	11.7	4.2
117183	(5×2×0.34)	8.0	13.3	5.1
117184	(6×2×0.34)	8.6	15.0	5.9
117185	(8×2×0.34)	10.0	19.2	8.3
117186	(10×2×0.34)	10.8	22.1	10.0
117187	(12×2×0.34)	11.1	24.1	11.4
0.5 mm²				
117190	(2×2×0.5)	7.3	10.9	3.4
117191	(3×2×0.5)	7.7	12.3	4.5
117303	(4×2×0.5)	8.2	14.2	5.7
117192	(5×2×0.5)	9.1	16.3	6.9
117193	(6×2×0.5)	9.9	18.4	8.0
117194	(8×2×0.5)	11.2	23.8	11.2
117195	(10×2×0.5)	12.4	27.5	13.5
117196	(12×2×0.5)	13.0	30.2	15.6
0.75 mm²				
117199	(2×2×0.75)	8.5	14.3	4.7
117201	(3×2×0.75)	9.0	16.2	6.3
117202	(4×2×0.75)	9.7	18.9	8.0
117203	(5×2×0.75)	10.8	22.7	10.5
117204	(6×2×0.75)	11.7	25.9	12.3
117205	(8×2×0.75)	13.5	32.0	16.0
117206	(10×2×0.75)	14.7	37.3	19.3
117207	(12×2×0.75)	15.2	42.1	23.1

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