

PVC control cables intrinsically safe

LÜTZE-SILFLEX® EN LÜTZE-SILFLEX® EN (C) Y



Application

- Control, monitoring and instrumentation cable in intrinsically safe electric circuits (according to DIN VDE 0165 T.1)
- For explosive areas with ignition type(EX) -I-
- Painting and drying systems, machine and plant construction
- In dry and moist rooms

Properties

- PVC flame-retardant, self-extinguishing
- Widely resistant to oils, greases, acids and bases
- Free from paint wetting disruptive substances (LABS-free), RoHS-compliant

Technical data

Voltage	
U ₀ /U	300/500 V
Test voltage	3000 V
Insulation resistance	min. 20 MΩ × km
Operating capacity (unshielded) at 800 Hz	
Strand/Strand	approx. 110 pF/m
Operating capacity (shielded) at 800 Hz	
Strand/Strand	approx. 130 pF/m
Strand/Shield	approx. 185 pF/m
(pF/m at 800 Hz)	
Inductance	approx. 0.65 mH/km
Temperature range	
moving	-5 °C to +70 °C
fixed	-30 °C to +80 °C
Minimum bending radius	according to VDE 0298 table 6
Burning behaviour	Flame-retardant according to VDE 0482 part 265-2; DIN EN 50265-2; IEC 60332-1

Design

- Bare copper wire, multi-strand according to DIN VDE 0295 class 5, IEC 60228 class 5
- Special PVC conductor insulation
- Black conductors with white number print according to DIN EN 50334
- Conductors stranded layers
- Shielded design: meshwork from tinned copper wire braid, optical covering ≥ 85 %
- Jacket special PVC TM2 according to HD21.1, matt, adhesion-free surface
- Jacket colour blue RAL 5015

Part-No.	Number of strands/cross-section	Outer-∅ approx. mm	Weight kg/100 m	Cu-Index kg/100 m
unshielded - jacket colour blue				
100751	2×0.75	5.6	5.4	1.4
100754	3×0.75	5.9	6.6	2.2
100758	4×0.75	6.4	7.8	2.9
100760	5×0.75	6.9	10.0	3.6
110762	18×0.75	12.0	27.6	13.0
100753	2×1.0	5.9	6.0	1.9
100755	4×1.0	6.7	10.6	3.8
100756	2×1.5	6.8	8.4	2.9
100757	3×1.5	6.9	10.2	4.3
100759	5×1.5	8.3	14.5	7.2
100704	7×1.5	9.1	17.1	10.1
shielded - jacket colour blue				
100711	(2×0.75)	6.3	5.6	4.0
100747	(3×0.75)	6.6	7.0	5.1
100713	(4×0.75)	7.1	9.5	6.2
100715	(8×0.75)	9.0	17.3	12.0
100716	(2×1.0)	6.6	8.4	6.0
100714	(3×1.0)	6.9	11.0	7.0
100717	(4×1.0)	7.4	13.0	9.0
108059	(12×1.0)	11.6	28.5	17.3
100719	(2×1.5)	7.2	9.7	7.4
100256	(3×1.5)	7.8	12.0	9.0
100720	(4×1.5)	8.3	16.5	11.6

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