

# 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 <sub>0</sub> /U	300/500 V
Test voltage	
	3000 V
Isolation 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 T 265-2-1

### 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-Ø approx. mm	Weight kg/100 m	Cu-Index kg/100 m
<b>unshielded - jacket colour blue</b>				
100751	2×0,75 OZ	5.6	5.4	1.4
100754	3×0,75 OZ	5.9	6.6	2.2
100758	4×0,75 OZ	6.4	7.8	2.9
100760	5×0,75 OZ	6.9	10.0	3.6
100859	6×0,75 OZ	7.5	11.6	4.3
100752	8×0,75 OZ	9.0	13.8	5.8
110762	18×0,75 OZ	12.0	27.6	13.0
100753	2×1,0 OZ	5.9	6.0	1.9
100755	4×1,0 OZ	6.7	10.6	3.8
100756	2×1,5 OZ	6.9	8.4	2.9
100757	3×1,5 OZ	6.9	10.2	4.3
100759	5×1,5 OZ	8.3	14.5	7.2
100704	7×1,5 OZ	9.1	17.1	10.1
<b>shielded - jacket colour blue</b>				
100711	(2×0,75) OZ	6.3	5.6	4.0
100747	(3×0,75) OZ	6.6	7.0	5.1
100713	(4×0,75) OZ	7.1	9.5	6.2
100715	(8×0,75) OZ	9.0	17.3	12.0
108078	(12×0,75) OZ	11.0	23.2	14.3
108328	(24×0,75) OZ	15.0	41.0	28.0
100716	(2×1,0) OZ	6.6	8.4	6.0
100714	(3×1,0) OZ	6.9	11.0	7.0
100717	(4×1,0) OZ	7.4	13.0	9.0
108059	(12×1,0) OZ	11.6	28.5	17.3
101195	(20×1,0) OZ	15.0	42.5	27.0
108058	(24×1,0) OZ	16.0	63.0	32.0
100719	(2×1,5) OZ	7.2	9.7	7.4
100256	(3×1,5) OZ	7.8	12.0	9.0
100720	(4×1,5) OZ	8.3	16.5	11.6

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