

# PVC c-track cables

## LÜTZE SUPERFLEX® N



### Application

- Machine and device construction, transport and conveyor technology, heating, climate technology
- In dry and moist rooms
- As control, measurement and control cable for continuous moving and medium operating conditions
- In energy command chains and everywhere where signals are transmitted to continuously moving system or machine parts

### Properties

- Through construction and material suitable for continuous movement application.
- PVC Flame-retardant, self-extinguishing
- Widely resistant to oils, greases, acids and bases (see tech. information)
- 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
Insulation resistance	min. 20 MΩ × km
Temperature range	
moving	-5 °C to +80 °C
fixed	-25 °C to +80 °C
Minimum bending radius	
moving	Cable diameter × 10
fixed	Cable diameter × 4
Jacket material	Thermal pressure resistance according to DIN VDE 60881 up to 80 °C
Cold flexibility	-25 °C
Radiation-resistance	8×10 <sup>7</sup> cJ/kg
Burning behaviour	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2 IEC 60332-1

### Design

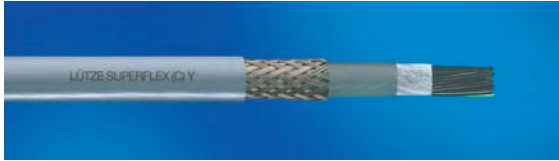
- Bare copper wire, superfine strand according to DIN VDE 0295 Kl. 6, IEC 60228 cl. 6
- Special PVC conductor insulation TI2 according to VDE 0281 or HD 21.1
- Conductors black with white number print according to DIN EN 50334
- Ground conductor  
G = with greenyellow ground conductor; × = without ground conductor
- Conductors twisted without mechanical stress, layer pitch optimised
- Non-woven material over stranded cable
- Jacket special PVC TM3 according to VDE 0281 or HD21.1
- 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
<b>0.5 mm<sup>2</sup></b>				
101049	3G0.5	5.1	4.0	1.5
111044	3×0.5	5.1	4.0	1.5
118383	4G0.5	5.5	4.8	2.0
118393	5G0.5	5.9	5.6	2.5
118384	7G0.5	6.8	7.0	3.4
101351	12G0.5	8.2	10.8	5.8
101048	18G0.5	9.2	15.0	8.6
108055	25G0.5	11.5	19.6	12.7
<b>0.75 mm<sup>2</sup></b>				
100765	2×0.75	5.5	4.4	1.4
100766	3G0.75	5.6	5.2	2.2
101001	3×0.75	5.6	5.2	2.2
111045	4G0.75	6.3	6.3	2.9
100767	5G0.75	6.6	7.4	3.6
100768	7G0.75	7.5	9.4	5.0
100998	12G0.75	9.0	14.9	8.8
100901	14G0.75	9.5	16.8	10.3
100778	18G0.75	10.5	20.8	13.2
101425	18×0.75	10.5	20.8	13.2
100856	25G0.75	12.5	28.2	18.3
<b>1.0 mm<sup>2</sup></b>				
100788	2×1.0	5.7	5.2	2.0
100789	3G1.0	5.9	6.3	3.0
100761	4G1.0	6.5	7.6	4.0
100777	5G1.0	7.0	8.9	5.0
100790	7G1.0	8.2	11.5	6.9
100791	12G1.0	9.8	18.2	11.9
100782	18G1.0	11.1	25.8	17.8
100784	25G1.0	13.7	35.0	24.8
100771	34G1.0	15.0	45.9	33.7
100779	42G1.0	16.5	55.4	41.6
<b>1.5 mm<sup>2</sup></b>				
101424	2×1.5	6.6	7.7	2.9
100796	3G1.5	6.7	9.3	4.4
100787	4G1.5	7.2	11.4	5.9
100808	5G1.5	8.0	13.5	7.4
100792	7G1.5	9.2	17.5	10.3
100793	12G1.5	11.3	28.1	17.7
100794	18G1.5	13.0	40.0	26.5
100795	25G1.5	15.6	54.5	36.8
<b>2.5 mm<sup>2</sup></b>				
100893	3G2.5	8.5	13.4	7.2
100707	4G2.5	9.2	16.6	9.6
100769	5G2.5	9.9	19.8	12.0
100797	7G2.5	11.8	26.0	16.8
100807	12G2.5	14.5	42.3	28.8
100900	18G2.5	16.9	60.7	43.2
100781	25G2.5	21.6	86.9	60.0
<b>4 mm<sup>2</sup></b>				
100988	2×4	9.6	21.0	7.7
108049	4G4	11.8	30.0	15.4
108045	5G4	13.2	38.0	19.2
100154	7G4	15.9	48.0	26.8

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

# PVC c-track cables

## LÜTZE SUPERFLEX® N (C)Y



### Application

- Machine and device construction, transport and conveyor technology, heating, climate technology
- In dry and moist rooms
- As control, measurement and control cable for continuous moving and medium operating conditions
- In energy command chains and everywhere where signals are transmitted to continuously moving system or machine
- Especially for industrial environment with high interference potential, in machine, plant and device construction

### Properties

- Through construction and material suitable for continuous movement application.
- High active and passive interference resistance
- PVC Flame-retardant, self-extinguishing
- Largely resistant to oils, greases, acids and bases (see tech. information)
- Free from paint wetting impairment substances (LABS-free), RoHS-compliant

### Technical data

Voltage	
U <sub>0</sub> /U	300/500 V
Test voltage	3000 V
Insulation resistance	min. 20 MΩ × km
Temperature range	
moving	-5 °C to +80 °C
fixed	-25 °C to +80 °C
Minimum bending radius	
moving	Cable diameter × 12
fixed	Cable diameter × 6
Jacket material	Thermal pressure resistance according to DIN VDE 60881 up to 80 °C to -25 °C
Cold flexibility	
Radiation-resistance	8×10 <sup>7</sup> cJ/kg
Burning behaviour	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2 IEC 60332-1

### Design

- Bare copper wire, superfine strand according to DIN VDE 0295 Kl. 6, IEC 60228 cl. 6
- Special PVC conductor insulation TI2 according to VDE 0281 or HD 21.1
- Conductors black with white number print according to DIN EN 50334
- Ground conductor  
G = with greenyellow ground conductor; × = without ground conductor
- Conductors twisted without mechanical stress, layer pitch optimised
- Inside jacket PVC
- Meshwork from tinned copper wire braid, optical covering ≥ 85 %
- Non-woven material over stranded cable
- Jacket special PVC TM3 according to VDE 0281 or HD21.1
- Jacket colour grey RAL 7001

Part-No.	Number of strands/cross-section	Outer-∅ approx. mm	Weight kg/100 m	Cu-Index kg/100 m
<b>0.5 mm<sup>2</sup></b>				
110446	(2×0.5)	6.6	6.1	2.2
110774	(3×0.5)	6.8	6.8	2.8
101288	(3G0.5)	6.8	6.8	2.8
110423	(4×0.5)	7.1	7.7	3.4
108800	(4G0.5)	7.1	7.7	3.4
118039	(5G0.5)	7.5	8.7	4.0
110775	(7×0.5)	8.7	10.3	5.1
108801	(7G0.5)	8.7	10.3	5.1
110447	(12×0.5)	10.0	15.0	8.0
108802	(12G0.5)	10.0	15.0	8.0
110591	(18×0.5)	10.9	20.6	12.1
110776	(25×0.5)	12.6	26.8	16.2
<b>0.75 mm<sup>2</sup></b>				
110489	(2×0.75)	7.0	7.3	2.8
110441	(3×0.75)	7.2	8.2	3.6
108803	(3G0.75)	7.2	8.2	3.6
110566	(4×0.75)	7.5	9.5	4.5
108000	(4G0.75)	7.2	8.2	3.6
111245	(5G0.75)	8.1	10.8	5.4
108001	(7G0.75)	8.6	13.1	7.0
110491	(12×0.75)	10.7	20.3	12.0
110563	(12G0.75)	8.6	13.1	7.0
108002	(18G0.75)	12.1	27.2	16.9
110564	(25G0.75)	14.0	35.6	22.7
<b>1.0 mm<sup>2</sup></b>				
111246	(2×1.0)	7.3	8.3	3.5
111215	(3G1.0)	7.6	9.4	4.5
110567	(4G1.0)	8.1	11.0	5.7
118042	(5G1.0)	8.6	12.6	6.8
118239	(7G1.0)	9.2	15.4	8.9
111001	(12G1.0)	11.5	24.1	15.4
111247	(18G1.0)	13.0	32.6	21.9
111248	(25G1.0)	15.3	43.8	30.4
<b>1.5 mm<sup>2</sup></b>				
110947	(2×1.5)	8.1	11.4	4.8
110954	(3G1.5)	8.5	13.2	6.3
110499	(4G1.5)	9.0	14.6	8.0
118194	(5G1.5)	10.4	18.8	10.5
111303	(7G1.5)	11.2	23.2	13.7
111304	(12G1.5)	14.0	35.5	22.1
111305	(18G1.5)	16.0	49.4	32.5
111306	(25G1.5)	19.3	68.1	46.5
<b>2.5 – 10 mm<sup>2</sup></b>				
110608	(3G2.5)	10.0	18.6	10.3
108003	(4G2.5)	10.9	22.2	13.0
118111	(4G4)	13.8	40.0	21.2
118112	(4G6)	16.2	50.0	31.6
110701	(5G2.5)	11.0	25.9	15.8
111329	(7G2.5)	13.0	32.6	21.0

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

# PVC c-track cables · UL/CSA 600 V

## LÜTZE SUPERFLEX® N cULus



### Application

- Machine and device construction, transport and conveyor technology, heating, climate technology
- In dry and moist rooms
- As control, measurement and control cable for continuous moving and medium operating conditions
- In energy command chains and everywhere where signals are transmitted to continuously moving system or machine parts

### Properties

- Minimal cable diameter through special TPE/HGI conductor insulation according to UL
- Low capacitance, very good electrical properties
- Through construction and material suitable for continuous movement application.
- Outer jacket special-PVC Class 43 according to UL
- Largely resistant to oils, greases, acids and bases (see tech. information)
- Free from paint wetting impairment substances (LABS-free), RoHS-compliant

### Technical data

Voltage	
U <sub>0</sub> /U	300/500 V
UL	600 V
Test voltage	6000 V
Insulation resistance	min. 100 MΩ × km
Temperature range	
moving	-5 °C to +80 °C
fixed	-25 °C to +80 °C
Minimum bending radius	
moving	Cable diameter × 10
fixed	Cable diameter × 4
Jacket material	Thermal pressure resistance according to DIN VDE 60881 up to 90 °C
Cold flexibility	according to UL up to -25 °C
Radiation-resistance	8×10 <sup>7</sup> cJ/kg
Burning behaviour	Flame-retardant according to UL VW-1; DIN EN 50265-2
Oil resistant	according to UL 4d100C and DIN EN 60811-2-1

### Design

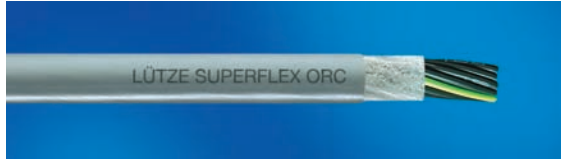
- Bare copper wire, superfine strand according to DIN VDE 0295 Kl. 6, IEC 60228 cl. 6
- Special TPE/HGI conductor insulation according to UL
- Conductors black with white number print according to DIN EN 50334
- Ground conductor  
G = with greenyellow ground conductor; × = without ground conductor
- Conductors twisted without mechanical stress, layer pitch optimised
- Non-woven material over stranded cable
- Jacket special PVC according to UL class 43 and VDE 0207 TM5, Temperature-resistant according to VDE 0207 up to 90 °C
- 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
<b>0.5 mm<sup>2</sup></b>				
109450	3G0.5	5.7	4.4	1.5
109451	4G0.5	6.1	5.3	2.0
109452	5G0.5	6.7	6.2	2.5
109453	7G0.5	7.7	8.3	3.4
109454	12G0.5	9.3	11.6	5.9
109455	18G0.5	10.7	16.2	8.8
109456	25G0.5	12.5	21.8	12.3
<b>1.0 mm<sup>2</sup></b>				
109457	3G1.0	6.6	6.6	2.9
109458	4G1.0	7.2	8.1	4.0
109459	5G1.0	7.8	9.5	5.0
109460	7G1.0	9.1	12.4	6.9
109461	12G1.0	10.8	18.9	11.9
109462	18G1.0	12.7	26.7	17.8
109463	25G1.0	15.1	36.3	24.7
109464	34G1.0	16.8	47.5	33.7
109479	41G1.0	18.8	58.4	37.5
<b>1.5 mm<sup>2</sup></b>				
109465	3G1.5	7.2	8.6	4.4
109466	4G1.5	7.8	10.6	5.9
109467	5G1.5	8.6	12.6	7.4
109468	7G1.5	10.1	16.6	10.3
109469	12G1.5	12.4	25.8	17.5
109470	18G1.5	14.5	36.7	26.5
109471	25G1.5	16.8	50.1	36.8
<b>2.5 mm<sup>2</sup></b>				
109472	4G2.5	9.1	15.9	9.8
109473	5G2.5	10.0	18.9	12.8
109474	7G2.5	12.1	25.3	17.0
<b>4 mm<sup>2</sup></b>				
109475	4G4	10.7	23.0	15.5
109476	7G4	14.0	37.7	27.3

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

# PVC c-track cables

## LÜTZE SUPERFLEX® N ORC



### Application

- Machine tools, transfer lines as well as additional areas in the French automobile industry
- In dry and moist rooms
- As control, measurement and regulation cable medium operating conditions
- In energy command chains and everywhere where signals are transmitted to continuously moving system or machine parts
- Approved by the French automobile industry for use in conjunction with cutting and cooling oils

### Properties

- Isolation and jacket material especially oil-stabilised according to the French automobile industry norm (CNOMO)
- Through construction and material suitable for continuous movement application
- PVC flame-retardant, self-extinguishing
- Widely resistant to 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
Insulation resistance	min. 20 MΩ/km
Temperature range	
moving	-5 °C to +70 °C
fixed	-25 °C to +70 °C
Minimum bending radius	
moving	Cable diameter × 10
fixed	Cable diameter × 4
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 Kl. 5, IEC 60228 cl. 5
- Special PVC conductor insulation according to CNOMO
- Conductors black with white number print according to DIN EN 50334
- Ground conductor  
G = with greenyellow ground conductor; × = without ground conductor
- Conductors stranded layers
- Jacket special PVC according to CNOMO, 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
<b>1.0 mm<sup>2</sup></b>				
101165	3G1.0	7.6	7.9	2.8
108022	4G1.0	8.3	10.6	3.8
101164	5G1.0	9.4	13.0	4.8
101209	7G1.0	11.0	15.5	6.7
101167	12G1.0	13.0	25.6	11.5
101210	18G1.0	15.4	42.6	17.2
101211	20G1.0	16.4	45.0	19.2
101166	25G1.0	18.5	54.0	24.0
<b>1.5 mm<sup>2</sup></b>				
101212	3G1.5	8.1	11.3	4.3
101229	4G1.5	9.0	12.8	5.7
100933	5G1.5	10.0	16.0	7.2
101213	7G1.5	11.8	20.1	10.0
101228	12G1.5	13.6	31.8	17.3
101015	18G1.5	16.4	50.8	25.9
108036	25G1.5	20.4	67.1	36.0
<b>2.5 mm<sup>2</sup></b>				
101238	3G2.5	10.0	17.0	7.2
101227	4G2.5	11.1	21.6	9.6
<b>4 – 10 mm<sup>2</sup></b>				
108026	4G4	13.8	30.0	15.4
101256	4G6	17.0	42.0	23.0
108037	4G10	20.6	65.0	38.4

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