

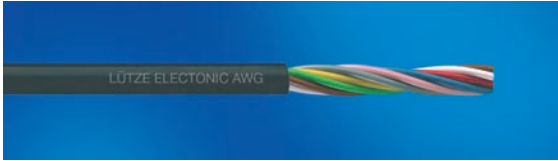
8. Electronic cables



LÜTZE ELECTRONIC

PVC electronic cables · unshielded · UL style 2464 / CSA

LÜTZE ELECTRONIC LIYY AWG



Application

- In all areas of electronics, measuring, control and regulation technologies
- In low voltage switchgears, communications engineering
- In dry and moist rooms
- For flexible application for free movement and without tensile loading

Properties

- Minimal cable diameter through thin-walled PVC semi-rigid conductor insulation according to UL
- Especially suitable for cost-efficient IDC-connection (Insulation Displacement Connection)
- Outer jacket special-PVC Class 43 according to UL
- Very good oil resistance
- Very good UV stability
- Largely resistant to acids and bases (see tech. information)
- Free from paint wetting impairment substances (LABS-free), RoHS-compliant

Technical data

UL approval	300 V 80 °C
Rated voltage	300 V
Test voltage	1500 V
Insulation resistance	min. 100 MΩ × km
Temperature range	
moving	-15 °C to +80 °C
fixed	-30 °C to +80 °C
Minimum bending radius	
fixed	Cable diameter × 4
for free movement	Cable diameter × 15
Burning behaviour	Flame-retardant according to VDE 0482 part 265-2; DIN EN 50265-2; IEC 60332-1; UL 1581 section VW-1 Flame-Test; CSA FT 1

Design

- Bare copper wire in the AWG design
- AWG 26/7 = 0.14 mm²
- AWG 24/7 = 0.23 mm²
- AWG 22/7 = 0.34 mm²
- AWG 20/7 = 0.56 mm²
- Special semi-rigid PVC conductor insulation according to UL
- Conductors colour-coded according to international colour code (up to 19 conductors identical according to VDE 0881)
- Conductors stranded layers
- Jacket special PVC according to UL class 43
- Jacket colour black RAL 9005, grey RAL 7001 available on request

Part-No.	Number of strands/cross-section	Outer-Ø approx. mm	Weight kg/100 m	Cu-Index kg/100 m
AWG26				
118770	2×AWG26	3.6	1.2	0.3
118771	3×AWG26	3.8	1.5	0.4
118772	4×AWG26	4.0	1.8	0.6
118773	6×AWG26	4.6	2.5	0.8
118774	8×AWG26	5.1	3.4	1.1
118775	10×AWG26	5.6	3.8	1.4
118776	12×AWG26	5.8	4.6	1.7
AWG24				
118792	2×AWG24	3.8	1.6	0.5
118793	3×AWG24	4.0	1.9	0.7
118794	4×AWG24	4.3	2.3	0.9
118777	6×AWG24	4.9	3.2	1.4
118778	8×AWG24	5.7	4.6	1.8
118779	10×AWG24	6.0	5.5	2.3
118780	12×AWG24	6.2	6.0	2.8
AWG22				
118733	2×AWG22	4.3	2.3	0.7
118740	3×AWG22	4.4	2.7	1.0
118734	4×AWG22	4.8	3.3	1.4
118735	6×AWG22	5.7	3.7	2.0
118781	8×AWG22	6.2	5.9	2.7
118782	10×AWG22	7.0	7.1	3.4
118783	12×AWG22	7.2	8.2	4.1
AWG20				
118741	2×AWG20	4.6	2.9	1.1
118784	3×AWG20	4.8	3.5	1.7
118795	4×AWG20	5.4	4.5	2.2
118785	6×AWG20	6.1	6.3	3.4
118786	8×AWG20	6.8	7.9	4.5
118787	10×AWG20	7.6	10.2	5.6
118788	12×AWG20	8.1	11.0	6.7

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

PVC electronic cables · shielded · UL style 2464 / CSA

LÜTZE ELECTRONIC LiY(C)Y AWG



Application

- In all areas of electronics, measuring, control and regulation technology
- In low voltage switchgears and communications engineering
- In dry and moist rooms
- For flexible application for free movement and without tensile loading
- Especially for industrial environments with high interference potential, in machines, plant and device construction

Properties

- Minimal cable diameter through thin-walled PVC semi-rigid conductor insulation according to UL
- Especially suitable for cost-efficient IDC-connection (Insulation Displacement Connection)
- High active and passive interference resistance
- Outer jacket special-PVC Class 43 according to UL
- Very good oil resistance
- Very good UV stability
- Largely resistant to acids and bases (see tech. information)
- Free from paint wetting impairment substances (LABS-free), RoHS-compliant

Technical data

UL approval	300 V 80 °C
Rated voltage	300 V
Test voltage	1500 V
Insulation resistance	min. 100 MΩ × km
Temperature range	
moving	-15 °C to +80 °C
fixed	-30 °C to +80 °C
Minimum bending radius	
fixed	Cable diameter × 4
for free movement	Cable diameter × 15
Burning behaviour	Flame-retardant according to VDE 0482 part 265-2; DIN EN 50265-2; IEC 60332-1; UL 1581 section VW-1 Flame-Test; CSA FT 1

Design

- Bare copper wire in the AWG design
 - AWG 26/7 = 0.14 mm²
 - AWG 24/7 = 0.23 mm²
 - AWG 22/7 = 0.34 mm²
 - AWG 20/7 = 0.56 mm²
- Special semi-rigid PVC conductor insulation according to UL
- Conductors colour-coded according to international colour code (up to 19 conductors identical according to VDE 0881)
- Conductors stranded layers
- Meshwork from tinned copper wire braid, optical covering ≥ 85 %
- Jacket special PVC according to UL class 43
- Jacket colour black RAL 9005, grey RAL 7001 available on request

Part-No.	Number of strands/cross-section	Outer-Ø approx. mm	Weight kg/100 m	Cu-Index kg/100 m
AWG26				
118750	(2×AWG26)	4.2	1.7	1.2
118751	(3×AWG26)	4.4	1.9	1.3
118752	(4×AWG26)	4.7	2.3	1.5
118753	(6×AWG26)	5.2	3.1	2.0
118754	(8×AWG26)	5.6	4.0	3.1
118755	(10×AWG26)	6.3	4.5	3.4
118756	(12×AWG26)	6.6	5.1	3.8
AWG24				
118767	(2×AWG24)	4.6	1.9	1.4
118768	(3×AWG24)	4.8	2.4	1.7
118769	(4×AWG24)	5.2	2.8	2.3
118747	(6×AWG24)	5.8	3.9	2.9
118749	(8×AWG24)	6.3	3.8	3.8
118748	(10×AWG24)	7.5	4.3	4.3
118739	(12×AWG24)	7.8	5.1	5.1
AWG22				
118742	(2×AWG22)	4.8	3.2	1.5
118757	(3×AWG22)	5.0	3.6	1.7
118736	(4×AWG22)	5.4	4.5	2.5
118758	(6×AWG22)	5.8	6.1	3.4
118759	(8×AWG22)	6.8	7.3	4.1
118760	(10×AWG22)	7.9	9.3	5.7
AWG20				
118761	(2×AWG20)	5.1	4.1	2.2
118762	(3×AWG20)	5.3	4.8	2.7
118763	(4×AWG20)	5.7	5.8	3.3
118764	(6×AWG20)	6.6	7.8	4.6
118765	(8×AWG20)	7.7	10.2	6.6
118766	(10×AWG20)	8.2	12.0	7.8

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Application

- In all areas of electronics, measuring, monitoring and regulation technologies
- In low voltage switchgears, communications engineering
- In dry and moist rooms
- For flexible application for free movement and without tensile loading

Properties

- Minimal cable diameter through thin-walled PVC conductor insulation according to UL
- Outer jacket special-PVC Class 43 according to UL
- Very good oil resistance
- Largely resistant to acids and bases (see tech. information)
- Free from paint wetting impairment substances (LABS-free), RoHS-compliant

Technical data

UL approval	300 V 80 °C
Rated voltage	300 V
Test voltage	2000 V
Insulation resistance	min. 20 MΩ × km
Temperature range	
moving	-15 °C to +80 °C
fixed	-30 °C to +70 °C
Minimum bending radius	
fixed	Cable diameter × 4
for free movement	Cable diameter × 12
Burning behaviour	Flame-retardant according to VDE 0482 part 265-2; DIN EN 50265-2; IEC 60332-1; UL 1581 section VW-1 Flame-Test; CSA FT 1

Design

- Bare copper braid, fine stranded according to DIN VDE 0295 class 5 and IEC 60228 class 5
- Special PVC conductor insulation according to UL 1729
- Conductors colour-coded according to DIN 47100
- Conductors stranded layers
- Jacket special PVC according to UL class 43
- 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				
108600	2×0.14	3.6	1.7	0.3
108601	3×0.14	3.8	1.9	0.4
108602	4×0.14	4.0	2.2	0.5
108603	5×0.14	4.3	2.4	0.7
108604	6×0.14	4.6	2.9	0.8
108605	8×0.14	5.0	3.6	1.1
108606	10×0.14	5.6	4.3	1.4
108607	12×0.14	5.8	4.8	1.6
108608	16×0.14	6.3	5.9	2.2
108609	18×0.14	6.6	6.5	2.4
108610	25×0.14	7.6	8.6	3.4
0.25 mm²				
108612	2×0.25	4.2	2.0	0.5
108613	3×0.25	4.4	2.3	0.7
108614	4×0.25	4.7	2.7	1.0
108615	5×0.25	5.1	3.0	1.2
108616	6×0.25	5.5	3.6	1.4
108617	8×0.25	6.0	4.5	1.9
108618	10×0.25	6.8	5.4	2.4
108619	12×0.25	7.0	5.9	2.9
108620	16×0.25	7.7	7.4	3.8
108621	18×0.25	8.1	8.1	4.3
108622	25×0.25	9.4	10.7	6.0
0.34 mm²				
108624	2×0.34	4.6	2.4	0.7
108625	3×0.34	4.8	2.9	1.0
108626	4×0.34	5.2	3.4	1.3
108627	5×0.34	5.7	5.4	1.6
108628	6×0.34	6.1	4.6	2.0
108629	8×0.34	6.7	5.7	2.6
108630	10×0.34	7.4	6.9	3.3
108631	12×0.34	7.8	7.7	3.9
108632	16×0.34	8.5	9.7	5.2
108633	18×0.34	8.9	10.7	5.9
108634	25×0.34	10.8	14.3	8.2
0.5 mm²				
108636	2×0.5	4.8	3.1	1.0
108637	3×0.5	5.1	3.8	1.4
108638	4×0.5	5.5	4.6	1.9
108639	5×0.5	5.9	5.9	2.4
108640	6×0.5	6.2	6.2	2.9
108641	8×0.5	7.2	7.9	3.8
108642	10×0.5	8.2	9.5	4.8
108643	12×0.5	8.5	10.8	5.8
108644	16×0.5	9.3	13.7	7.7
108645	18×0.5	9.8	15.1	8.6
108646	25×0.5	11.4	20.6	12.0
0.75 mm²				
108648	2×0.75	5.6	3.7	1.4
108649	3×0.75	5.9	4.5	2.2
108650	4×0.75	6.4	5.5	2.9
108651	5×0.75	7.0	7.0	3.6
108652	6×0.75	7.4	7.6	4.3
108653	8×0.75	8.5	9.5	5.8
108654	10×0.75	9.8	11.5	7.2
108655	12×0.75	10.1	13.3	8.6
108656	16×0.75	11.2	16.9	11.5
108657	18×0.75	11.8	18.9	13.0
108658	25×0.75	14.4	25.8	18.0

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PVC electronic cables · shielded · UL style 2464 / CSA

LÜTZE ELECTRONIC LiY (C)Y



Application

- For trouble-free transmission in all areas of electronics, measuring, monitoring and regulation technology
- In low voltage switchgears, communications engineering
- In dry and moist rooms
- For flexible application for free movement and without tensile loading
- Especially for industrial environments with high interference potential in machine, plant and device construction

Properties

- Minimal cable diameter through thin-walled PVC conductor insulation according to UL
- High active and passive interference resistance
- Outer jacket special-PVC Class 43 according to UL
- Very good oil resistance
- Largely resistant to acids and bases (see tech. information)
- Free from paint wetting impairment substances (LABS-free), RoHS-compliant

Technical data

UL approval	300 V 80 °C
Rated voltage	300 V
Test voltage	2000 V
Insulation resistance	min. 20 MΩ × km
Operating capacitance	approx. 120 – 150 pF/m
Temperature range	
moving	-15 °C to +80 °C
fixed	-30 °C to +80 °C
Minimum bending radius	
fixed	Cable diameter × 4
for free movement	Cable diameter × 15
Burning behaviour	Flame-retardant according to VDE 0482 part 265-2; DIN EN 50265-2; IEC 60332-1; UL 1581 section VW-1 Flame-Test; CSA FT 1

Design

- Bare copper wire, multi-strand according to DIN VDE 0295 class 5, IEC 60228 class 5
- Special PVC conductor insulation according to UL
- Conductors colour-coded according to DIN 47100
- Conductors stranded layers
- Meshwork from tinned copper wire braid, optical covering ≥ 85 %
- Jacket special PVC according to UL class 43
- 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				
108670	(2×0.14)	4.2	2.7	1.2
108671	(3×0.14)	4.4	3.0	1.3
108672	(4×0.14)	4.6	3.4	1.5
108673	(5×0.14)	4.9	4.0	1.7
108674	(6×0.14)	5.2	4.3	2.0
108675	(8×0.14)	5.6	5.1	2.4
108676	(10×0.14)	6.2	6.0	2.9
108677	(12×0.14)	6.6	6.5	3.2
108678	(16×0.14)	6.9	9.0	3.9
108679	(18×0.14)	7.2	11.5	4.3
108680	(25×0.14)	8.1	15.4	5.5
0.25 mm²				
108682	(2×0.25)	4.8	3.2	1.5
108683	(3×0.25)	5.0	3.7	1.8
108684	(4×0.25)	5.4	4.4	2.2
108685	(5×0.25)	5.7	5.2	2.6
108686	(6×0.25)	6.1	5.6	2.9
108687	(8×0.25)	6.6	6.8	3.6
108688	(10×0.25)	7.4	8.0	4.3
108689	(12×0.25)	7.6	8.8	4.8
108690	(16×0.25)	8.3	12.4	6.1
108691	(18×0.25)	8.7	14.3	6.6
108692	(25×0.25)	10.1	17.2	8.7
0.34 mm²				
108694	(2×0.34)	5.2	3.7	1.8
108695	(3×0.34)	5.5	4.3	2.2
108696	(4×0.34)	5.8	5.0	2.7
108697	(5×0.34)	6.3	6.6	3.2
108698	(6×0.34)	6.7	6.8	3.6
108699	(8×0.34)	7.3	8.0	4.5
108700	(10×0.34)	8.2	9.4	5.4
108701	(12×0.34)	8.5	14.2	6.2
108702	(16×0.34)	9.3	16.0	7.7
108703	(18×0.34)	9.9	17.3	8.5
108704	(25×0.34)	11.3	25.9	11.2
0.5 mm²				
108706	(2×0.5)	5.4	4.1	2.2
108707	(3×0.5)	5.7	4.8	2.8
108708	(4×0.5)	6.1	5.8	3.4
108709	(5×0.5)	6.5	9.0	4.0
108710	(6×0.5)	7.0	7.8	4.6
108711	(8×0.5)	7.6	10.2	5.8
108712	(10×0.5)	8.6	16.0	7.1
108713	(12×0.5)	8.9	17.7	8.1
108714	(16×0.5)	9.9	21.0	10.3
108715	(18×0.5)	10.4	23.9	11.4
108716	(25×0.5)	11.9	35.2	15.1
0.75 mm²				
108718	(2×0.75)	5.9	6.4	3.8
108719	(3×0.75)	6.2	7.6	4.9
108720	(4×0.75)	6.6	9.2	5.8
108721	(5×0.75)	7.5	10.9	6.7
108722	(6×0.75)	7.7	11.3	8.7
108723	(8×0.75)	8.9	14.5	11.0
108724	(10×0.75)	9.6	18.7	13.0
108725	(12×0.75)	9.9	21.8	15.4
108726	(16×0.75)	11.0	27.5	18.3
108727	(18×0.75)	11.5	32.7	19.5
108728	(25×0.75)	13.7	45.4	28.0

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PVC electronic cables · unshielded

LÜTZE ELECTRONIC LiYY



Application

- In all areas of electronics, measuring, control and regulation technologies
- In low voltage switchgears, communications engineering
- In dry and moist rooms
- For flexible application for free movement and without tensile loading

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	
up to 0.34 mm ²	300 V
from 1,5 mm ²	500 V
Test voltage	
up to 0.34 mm ²	1200 V
after 0.5 mm ²	2000 V
Insulation resistance	min. 20 MΩ × km
Operating capacitance	approx. 120 – 150 pF/m
Temperature range	
moving	-5 °C to +70 °C
fixed	-30 °C to +70 °C
Minimum bending radius	
fixed	Cable diameter × 4
for free movement	Cable diameter × 12
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
- Conductors colour-coded according to DIN 47100
- Conductors stranded layers
- Jacket special PVC TM2 according to HD21.1, matt, adhesion-free surface
- Jacket colour grey RAL 7001

Part-No.	Number of strands/cross-section	Outer-∅ approx. mm	Weight kg/100 m	Cu-Index kg/100 m
0.14 mm²				
110000	3×0.14	3.4	1.6	0.4
110001	4×0.14	3.6	2.1	0.5
110002	5×0.14	4.0	2.2	0.7
110003	6×0.14	4.4	3.1	0.8
110004	7×0.14	4.4	3.3	0.9
110415	8×0.14	4.9	3.5	1.1
110005	10×0.14	5.5	4.7	1.3
110006	12×0.14	5.6	5.3	1.6
110008	16×0.14	6.2	6.9	2.2
110009	18×0.14	6.6	7.2	2.4
110010	20×0.14	7.1	8.5	2.7
110011	24×0.14	8.0	10.5	3.2
0.25 mm²				
110988	2×25	3.8	2.0	0.5
110070	3×0.25	4.0	3.1	0.7
110071	4×0.25	4.5	3.5	1.0
110072	5×0.25	5.0	4.0	1.2
110073	6×0.25	5.4	5.0	1.4
110089	7×0.25	5.4	5.3	1.7
110074	8×0.25	6.0	5.6	1.9
110075	10×0.25	6.9	6.5	2.4
110076	12×0.25	7.2	7.2	2.9
110078	16×0.25	7.8	9.2	3.8
110079	18×0.25	8.5	11.0	4.3
110080	20×0.25	8.8	11.5	4.8
110081	24×0.25	9.4	13.0	5.8
0.34 mm²				
110122	3×0.34	4.4	2.7	1.0
110123	4×0.34	4.6	3.2	1.3
110249	5×0.34	5.3	4.2	1.6
110125	6×0.34	5.5	4.6	2.0
110127	8×0.34	6.6	6.2	2.6
110129	10×0.34	7.6	8.0	3.3
110131	12×0.34	7.7	8.8	3.9
110719	16×0.34	8.9	12.6	5.2
110135	18×0.34	9.0	12.8	5.9
110945	20×0.34	9.6	15.9	6.5
0.5 mm²				
108125	2×0.5	5.0	3.5	1.0
100327	3×0.5	5.3	4.2	1.4
100338	4×0.5	5.9	5.2	1.9
101052	5×0.5	6.5	7.7	2.4
100918	6×0.5	7.1	9.0	2.9
108126	7×0.5	7.1	10.0	3.4
100920	8×0.5	7.7	12.0	3.8
100922	10×0.5	8.6	12.5	4.8
100964	12×0.5	8.9	13.3	5.8
100948	16×0.5	10.0	15.2	7.7
108128	20×0.5	11.5	19.0	9.6
100951	24×0.5	12.2	23.7	11.5
0.75 mm²				
108130	2×0.75	5.6	4.7	1.4
108131	4×0.75	6.3	5.0	2.8
108132	5×0.75	7.1	6.0	3.6
108133	7×0.75	7.7	8.0	5.0
108134	10×0.75	9.6	11.0	7.2
108317	12×0.75	10.1	14.5	8.6
108136	16×0.75	11.5	19.0	11.5
108137	20×0.75	12.5	24.0	14.4
108138	24×0.75	13.6	25.0	17.3

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PVC electronic cables · shielded

LÜTZE ELECTRONIC LiY (C)Y GREY



Application

- For trouble-free transmission in all areas of electronics, measuring, control and regulation technology
- In low voltage switchgears and communications engineering
- In dry and moist rooms
- For flexible application for free movement and without tensile loading

Properties

- PVC Flame-retardant, self-extinguishing
- Very good shielding attenuation
- Outer jacket special-PVC TI2 according to HD 21.1
- Largely resistant to acids and bases
- Free from paint wetting impairment substances (LABS-free), RoHS-compliant

Technical data

Voltage

up to 0.34 mm ²	300 V
from 1,5 mm ²	500 V

Test voltage

up to 0.34 mm ²	1200 V
after 0.5 mm ²	2000 V

Insulation resistance min. 20 MΩ × km

Operating capacitance approx. 120 – 150 pF/m

Temperature range

moving	-5 °C to +70 °C
fixed	-30 °C to +70 °C

Minimum bending radius

fixed	Cable diameter × 6
for free movement	Cable diameter × 12

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
- Conductors colour-coded according to DIN 47100
- Conductors stranded layers, foil banding
- Meshwork from tinned copper wire braid, optical covering ≥ 85 %
- Jacket special PVC TM2 according to HD21.1, 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				
111206	(2×0.14)	3.7	2.1	1.3
108147	(3×0.14)	3.9	2.5	1.4
108149	(4×0.14)	4.1	2.9	1.4
110929	(5×0.14)	4.4	3.5	2.0
111086	(6×0.14)	4.7	3.8	2.2
110658	(7×0.14)	4.7	4.1	2.4
110722	(8×0.14)	5.0	4.5	2.6
110710	(10×0.14)	5.9	5.6	2.9
110736	(12×0.14)	6.1	6.1	3.2
118466	(16×0.14)	6.8	8.1	4.9
118481	(18×0.14)	7.1	9.2	5.4
110478	(21×0.14)	7.4	10.6	6.0
118438	(25×0.14)	8.3	12.0	7.8
0.25 mm²				
110993	(2×0.25)	4.3	2.0	1.5
118430	(3×0.25)	4.5	3.5	1.8
118439	(4×0.25)	4.8	4.4	2.2
108154	(5×0.25)	5.2	5.0	2.5
118406	(6×0.25)	5.8	5.8	3.0
110650	(7×0.25)	5.8	6.0	3.2
118407	(8×0.25)	6.2	6.7	3.5
110475	(10×0.25)	7.3	8.1	4.2
118467	(12×0.25)	7.5	9.1	5.0
100552	(16×0.25)	8.2	13.3	7.1
118476	(18×0.25)	8.6	13.7	8.0
111327	(21×0.25)	9.0	17.1	10.5
110471	(25×0.25)	10.7	19.0	11.7
0.34 mm²				
110787	(2×0.34)	4.7	3.3	1.7
110371	(3×0.34)	5.2	4.1	2.1
110743	(4×0.34)	5.5	4.8	2.5
118408	(5×0.34)	6.0	5.8	3.0
118409	(6×0.34)	6.4	6.4	3.6
118410	(7×0.34)	6.4	7.0	4.2
118411	(8×0.34)	7.1	9.3	4.5
118421	(10×0.34)	8.1	11.0	6.3
110790	(12×0.34)	8.3	12.0	7.0
101280	(16×0.34)	9.2	14.7	8.7
110717	(18×0.34)	10.2	17.2	10.8
118427	(21×0.34)	10.7	19.6	12.7
101281	(24×0.34)	11.7	22.9	14.0

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

PVC electronic cables · shielded

LÜTZE ELECTRONIC LiY (C)Y GREY



Application

- For trouble-free transmission in all areas of electronics, measuring, control and regulation technology
- In low voltage switchgears and communications engineering
- In dry and moist rooms
- For flexible application for free movement and without tensile loading

Properties

- PVC Flame-retardant, self-extinguishing
- Very good shielding attenuation
- Outer jacket special-PVC TI2 according to HD 21.1
- Largely resistant to acids and bases
- Free from paint wetting impairment substances (LABS-free), RoHS-compliant

Technical data

Voltage

up to 0.34 mm ²	300 V
from 1,5 mm ²	500 V

Test voltage

up to 0.34 mm ²	1200 V
after 0.5 mm ²	2000 V

Insulation resistance

min. 20 MΩ × km

Operating capacitance

approx. 120 – 150 pF/m

Temperature range

moving	-5 °C to +70 °C
fixed	-30 °C to +70 °C

Minimum bending radius

fixed	Cable diameter × 6
for free movement	Cable diameter × 12

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
- Conductors colour-coded according to DIN 47100
- Conductors stranded layers, foil banding
- Meshwork from tinned copper wire braid, optical covering ≥ 85 %
- Jacket special PVC TM2 according to HD21.1, 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
0.5 mm²				
111324	(1×0.5)	3.2	2.0	1.4
118320	(2×0.5)	5.2	4.2	2.9
118413	(3×0.5)	5.7	5.5	3.5
118412	(4×0.5)	6.1	6.8	4.5
110720	(5×0.5)	6.8	8.2	5.0
110374	(7×0.5)	7.4	10.9	6.8
118471	(8×0.5)	7.9	12.3	7.5
101423	(10×0.5)	9.1	13.5	9.3
118991	(12×0.5)	9.4	16.0	10.7
110507	(16×0.5)	10.9	21.0	12.9
110742	(18×0.5)	11.5	23.7	15.2
110514	(25×0.5)	13.5	33.5	21.1
0.75 mm²				
118300	(1×0.75)	3.5	2.0	1.8
118414	(2×0.75)	5.8	5.0	3.5
118298	(3×0.75)	6.1	7.1	4.6
118299	(4×0.75)	6.8	7.8	5.6
118295	(5×0.75)	7.4	10.0	7.0
110376	(6×0.75)	8.0	11.6	8.5
118349	(7×0.75)	8.0	13.1	9.0
118445	(8×0.75)	8.5	15.1	11.0
110399	(10×0.75)	10.5	17.3	13.1
110477	(12×0.75)	10.8	21.8	14.8
111117	(16×0.75)	12.1	29.0	18.3
1.0 – 1.5 mm²				
108057	(2×1.0)	6.1	7.4	4.5
110915	(3×1.0)	6.4	9.0	5.4
110917	(4×1.0)	7.2	10.7	6.9
110918	(5×1.0)	7.8	13.2	8.2
110919	(7×1.0)	8.4	15.8	10.6

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PVC electronic cables· stranded pairs, shielded

LÜTZE ELECTRONIC LiY (C)Y TP



Application

- For trouble-free transmission in all areas of electronics, measuring, control and regulation technology
- In low voltage switchgears and communications engineering
- In office machines and computers
- In dry and moist rooms
- For flexible application for free movement and without tensile loading

Properties

- PVC flame-retardant, self-extinguishing
- Very good shielding attenuation
- High crosstalk attenuation through paired stranding
- Widely resistant to oils, greases, acids and bases
- Free from paint wetting disruptive substances (LABS-free), RoHS-compliant

Technical data

Voltage	
up to 0.34 mm ²	300 V
from 1,5 mm ²	500 V
Test voltage	
up to 0.34 mm ²	1200 V
after 0.5 mm ²	2000 V
Insulation resistance	min. 20 MΩ × km
Operating capacitance	approx. 120 – 150 pF/m
Temperature range	
moving	-5 °C to +70 °C
fixed	-30 °C to +70 °C
Minimum bending radius	
fixed	Cable diameter × 6
for free movement	Cable diameter × 12
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
- Conductors colour-coded according to DIN 47100
- Conductors stranded pairs, foil banding
- Meshwork from tinned copper wire braid, optical covering ≥ 85 %
- Jacket special PVC TM2 according to HD21.1, matt, adhesion-free surface
- Jacket colour grey RAL 7032

Part-No.	Number of strands/cross-section	Outer-∅ approx. mm	Weight kg/100 m	Cu-Index kg/100 m
0.14 mm²				
110600	(2×2×0.14)	5.1	3.5	1.8
110601	(3×2×0.14)	5.5	4.2	2.3
110602	(4×2×0.14)	6.3	5.0	2.5
101321	(5×2×0.14)	6.9	7.0	2.8
110604	(6×2×0.14)	7.3	8.5	3.8
110659	(8×2×0.14)	8.1	9.0	4.8
110606	(10×2×0.14)	8.9	11.5	6.0
110607	(12×2×0.14)	9.3	12.5	7.3
110609	(16×2×0.14)	10.5	14.8	9.8
110611	(20×2×0.14)	11.5	18.5	11.5
0.25 mm²				
110618	(2×2×0.25)	6.5	4.6	2.4
110619	(3×2×0.25)	6.7	5.7	3.5
110620	(4×2×0.25)	7.5	7.7	4.2
118195	(5×2×0.25)	8.0	8.7	5.0
110622	(6×2×0.25)	9.0	10.4	5.8
118251	(8×2×0.25)	9.4	11.8	7.0
110625	(10×2×0.25)	11.1	14.0	10.2
110626	(12×2×0.25)	12.1	19.0	12.0
110629	(20×2×0.25)	14.1	26.2	16.0
0.34 mm²				
110633	(2×2×0.34)	6.6	5.2	2.6
110634	(3×2×0.34)	7.4	6.8	4.0
110635	(4×2×0.34)	8.2	9.0	5.2
110637	(6×2×0.34)	9.6	13.7	6.8
118252	(8×2×0.34)	10.9	13.9	8.8
110665	(10×2×0.34)	12.3	14.3	12.2
118297	(25×2×0.34)	18.1	41.5	26.6
0.5 mm²				
110641	(2×2×0.5)	8.0	8.7	4.6
110642	(3×2×0.5)	8.6	10.9	6.4
110643	(4×2×0.5)	9.6	13.9	8.2
110248	(5×2×0.5)	11.8	17.6	9.8
110660	(6×2×0.5)	11.3	18.0	10.8
110645	(8×2×0.5)	12.0	23.8	13.6
118244	(10×2×0.5)	14.1	28.4	16.0
118322	(12×2×0.5)	15.0	32.4	18.6
110647	(16×2×0.5)	17.6	44.6	24.0
0.75 mm²				
110651	(2×2×0.75)	8.6	10.6	5.8
110137	(3×2×0.75)	9.5	14.0	8.4
110653	(4×2×0.75)	10.8	17.9	10.8
110795	(5×2×0.75)	12.2	22.4	12.6
111109	(6×2×0.75)	12.5	24.6	14.6
110829	(8×2×0.75)	14.8	30.5	18.8
111232	(12×2×0.75)	17.6	45.6	26.1
110745	(16×2×0.75)	21.5	49.2	33.6

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