

Chapter 4: Electronic cables



Electronic cables

	Jacket	Shielding	Approval	Application	Page
LÜTZE SUPERFLEX* TRONIC PUR	PUR		CE, UL	C-track compatible	55
LÜTZE SUPERFLEX* TRONIC (C) PUR	PUR	•	CE, UL	C-track compatible	56
LÜTZE SUPERFLEX* TRONIC (C) PUR TP	PUR	•	CE, UL	C-track compatible Paired	57
LÜTZE SUPERFLEX* TRONIC AS PUR	PUR		CE, UL	C-track compatible	58
LÜTZE SUPERFLEX* TRONIC AS (C) PUR	PUR	•	CE, UL	C-track compatible	59
LÜTZE ELECTRONIC LIYY	PVC		CE, UL	Static or flexible applications	60
LÜTZE ELECTRONIC LIY(C)Y	PVC	•	CE, UL	Static or flexible applications	61
LÜTZE ELECTRONIC LIY(C)Y TP	PVC	•	CE, UL	Static or flexible applications	62

PUR electronic cables · C-track compatible · Unshielded

LÜTZE SUPERFLEX® TRONIC PUR Unshielded electronic cable UL recognized For highest requirements



Application

- C-track 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 damp rooms
- As monitoring, measurement and control cable for continuous flexing applications

Properties

- Low capacitance, very good electrical properties
- Flame-retardant, self-extinguishing
- Halogen-free, no corrosive gases
- Very good flexing strength
- Low adhesion, abrasion-resistant, nick-resistant, tear resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant
- Good ruggedness and salt water resistance
- Excellent coolant and lubricant resistance
- Resistant to most oils, greases, alcohol-free benzines and kerosene
- Silicone free
- RoHS-compliant

Technical data

UL style	AWM 20549
Rated voltage	300 V
Test voltage	AC 1500 V
Insulation resistance at 20 °C	≥ 1000 MΩ×km
Temperature according to UL	80 °C
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	10×D
Minimum bending radius fixed	4×D
Burning behavior according to IEC 60332-2-2	DIN EN 60332-2-2
	UL 1581
	Horizontal Flame Test
	UL FT2
Halogen free according to	IEC 60754-1
	DIN EN 60754-1
Conformity	CE
	RoHS
Approvals	cURus

Construction

- Conductor: CU-wire bare
- Conductor category: IEC 60228, Class 6, Superfinely stranded
- DIN VDE 0295, class 6
- Conductor insulation: Special TPE
- Conductor marking: Color coded
- Conductor marking standard: DIN 47100
- Overall stranding: conductors layered construction, layer pitch optimised, conductors twisted without mechanical stress
- Jacket material: PUR
- Surface: adhesion-free, matt
- Jacket color: grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø mm	Weight kg/100 m	Cu-index kg/100 m
AWG 26 / 0,14 mm²				
117030	S* 2x0.14	3.6	1.4	0.3
117031	R* 3x0.14	3.7	1.6	0.4
117032	S* 4x0.14	4.1	1.9	0.6
117033	R* 5x0.14	4.4	2.2	0.7
117034	S* 7x0.14	5.0	2.9	1.0
117035	S* 10x0.14	5.7	3.7	1.4
117036	R* 12x0.14	5.9	4.1	1.7
117027	S* 15x0.14	6.5	4.9	2.2
117037	R* 18x0.14	6.8	5.7	2.7
117038	S* 25x0.14	8.1	7.9	3.6
AWG 24 / 0,25 mm²				
117039	S* 2x0.25	3.8	1.8	0.5
117040	S* 3x0.25	4.2	2.1	0.8
117041	S* 4x0.25	4.4	2.5	1.0
117042	S* 5x0.25	4.8	2.9	1.3
117043	S* 7x0.25	5.6	3.8	1.8
117044	S* 10x0.25	6.3	5.0	2.5
117045	S* 12x0.25	6.4	5.6	3.0
117028	S* 15x0.25	7.1	6.5	3.5
117046	S* 18x0.25	7.6	7.9	4.5
117047	S* 25x0.25	8.9	10.8	6.3
0.34 mm²				
117048	S* 2x0.34	4.1	2.1	0.7
117049	S* 3x0.34	4.5	2.4	1.0
117050	S* 4x0.34	4.6	2.9	1.3
117051	R* 5x0.34	5.2	3.4	1.7
117052	S* 7x0.34	6.0	4.5	2.4
117053	S* 10x0.34	6.9	5.9	3.4
117054	S* 12x0.34	6.9	6.8	4.0
117029	S* 15x0.34	7.6	8.4	5.0
117055	R* 18x0.34	7.9	9.6	6.1
117056	S* 25x0.34	9.6	13.2	8.4

CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU

PUR electronic cables · C-track compatible · Shielded

LÜTZE SUPERFLEX® TRONIC (C) PUR Shielded electronic cable UL recognized For highest requirements



Application

- C-track 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 damp rooms
- As monitoring, measurement and control cable for continuous flexing applications
- Especially for industrial environments with high EMI potential in machine, plant and device construction

Properties

- High active and passive interference resistance (EMC)
- Braided shield optimised for continuous flexing applications
- 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 resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant
- Good ruggedness and salt water resistance
- Excellent coolant and lubricant resistance
- Resistant to most oils, greases, alcohol-free benzines and kerosene
- Silicone free
- RoHS-compliant

Technical data

UL style	AWM 20549
Rated voltage	300 V
Test voltage	AC 1500 V
Insulation resistance at 20 °C	≥ 1000 MΩ×km
Temperature according to UL	80 °C
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Burning behavior according to	IEC 60332-2-2 DIN EN 60332-2-2 UL 1581 Horizontal Flame Test UL FT2
Halogen free according to	IEC 60754-1 DIN EN 60754-1
Conformity	CE RoHS
Approvals	cURus

Construction

- Conductor: CU-wire bare
- Conductor category: IEC 60228, Class 6, Superfinely stranded DIN VDE 0295, class 6
- Conductor insulation: Special TPE
- Conductor marking: Color coded
- Conductor marking standard: DIN 47100
- Overall stranding: conductors layered construction, layer pitch optimised, conductors twisted without mechanical stress
- Overall shield: Braid shield, Tinned copper wires, optical cover approx. 85%
- Jacket material: PUR
- Surface: adhesion-free, matt
- Jacket color: grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø mm	Weight kg/100 m	Cu-index kg/100 m
0.14 mm²				
117090	R* (2×0.14)	4.2	2.0	1.0
117091	R* (3×0.14)	4.2	2.3	1.2
117092	S* (4×0.14)	4.7	2.6	1.4
117093	S* (5×0.14)	4.8	3.0	1.7
117094	S* (7×0.14)	5.7	3.9	2.1
117095	S* (10×0.14)	6.3	4.8	2.8
117096	S* (12×0.14)	6.3	5.3	3.1
117097	S* (18×0.14)	7.3	7.1	4.2
117098	R* (25×0.14)	8.5	9.4	5.6
0.25 mm²				
117099	S* (2×0.25)	4.3	2.4	1.3
117100	S* (3×0.25)	4.7	2.8	1.6
117101	S* (4×0.25)	4.8	3.3	1.9
117102	S* (5×0.25)	5.3	3.7	2.3
117103	S* (7×0.25)	6.1	4.8	3.0
117104	S* (10×0.25)	6.9	6.1	4.0
117105	S* (12×0.25)	7.0	6.8	5.3
117106	S* (18×0.25)	8.0	9.4	6.3
117107	S* (25×0.25)	9.5	13.2	9.5
0.34 mm²				
117108	S* (2×0.34)	4.7	2.6	1.5
117109	S* (3×0.34)	4.7	2.1	1.9
117110	S* (4×0.34)	5.3	3.7	2.3
117111	S* (5×0.34)	5.6	4.3	2.8
117112	S* (7×0.34)	6.5	5.7	3.7
117113	S* (10×0.34)	7.3	7.2	5.0
117114	S* (12×0.34)	7.5	8.0	5.6
117115	S* (18×0.34)	8.6	11.2	8.0
117116	S* (25×0.34)	10.0	15.8	11.5

CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU

PUR electronic cables · C-track compatible · Shielded

LÜTZE SUPERFLEX® TRONIC (C) PUR TP Shielded electronic cable UL recognized, paired For highest requirements



Application

- C-track 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 damp rooms
- As monitoring, measurement and control cable for continuous flexing applications
- Especially for industrial environments with high EMI potential in machine, plant and device construction

Properties

- High active and passive interference resistance (EMC)
- High crosstalk attenuation due to twisted pairs
- Braided shield optimised for continuous flexing applications
- 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 resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant
- Good ruggedness and salt water resistance
- Excellent coolant and lubricant resistance
- Resistant to most oils, greases, alcohol-free benzines and kerosene
- Silicone free
- RoHS-compliant

Technical data

Rated voltage	300 V
Test voltage	AC 1500 V
Insulation resistance at 20 °C	≥ 1000 MΩ×km
Temperature according to UL	80 °C
Temperature range moving	-25 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	12xD
Minimum bending radius fixed	6xD
Burning behavior according to	IEC 60332-2-2 DIN EN 60332-2-2 UL 1581 UL Horizontal Flame Test UL FT2
Halogen free according to	IEC 60754-1 DIN EN 60754-1
Conformity	CE RoHS
Approvals	cURus
Note	UL AWM Style 20233 or UL AWM Style 20549

Construction

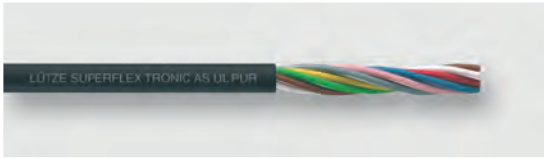
- Conductor: CU-wire bare
- Conductor category: IEC 60228, Class 6, Superfinely stranded
DIN VDE 0295, class 6
- Conductor insulation: Special TPE
- Conductor marking: Color coded
- Conductor marking standard: DIN 47100
- Overall stranding: stranded pairs, layer pitch optimised, conductors twisted without mechanical stress
- Overall shield: Braid shield, Tinned copper wires, optical cover approx. 85%
- Jacket material: PUR
- Surface: adhesion-free, matt
- Jacket color: grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
0.25 mm²				
117170	S* (2x2x0.25)	6.2	4.4	2.2
117171	S* (3x2x0.25)	6.5	5.0	2.8
117172	S* (4x2x0.25)	6.8	5.7	3.4
117173	S* (5x2x0.25)	7.7	7.3	4.0
117177	S* (6x2x0.25)	8.1	8.0	4.7
117174	S* (8x2x0.25)	9.4	11.3	6.0
117175	S* (10x2x0.25)	10.5	12.4	7.9
117176	S* (12x2x0.25)	10.8	14.1	9.1
0.34 mm²				
117180	S* (2x2x0.34)	6.5	4.7	2.6
117181	S* (3x2x0.34)	6.8	5.8	3.4
117182	S* (4x2x0.34)	7.4	7.0	4.2
117183	S* (5x2x0.34)	8.1	8.2	5.1
117184	R* (6x2x0.34)	8.6	9.6	5.9
117185	S* (8x2x0.34)	10.0	13.0	8.3
117186	R* (10x2x0.34)	10.9	14.9	10.0
117187	S* (12x2x0.34)	11.4	16.8	11.4
0.5 mm²				
117190	S* (2x2x0.5)	7.1	5.9	3.4
117191	S* (3x2x0.5)	7.5	7.1	4.5
117303	S* (4x2x0.5)	8.3	8.8	5.7
117192	S* (5x2x0.5)	9.0	10.4	6.8
117193	S* (6x2x0.5)	9.9	13.6	8.0
117194	R* (8x2x0.5)	11.5	17.0	11.2
117195	S* (10x2x0.5)	12.2	19.3	13.5
117196	R* (12x2x0.5)	12.6	22.3	15.6
0.75 mm²				
117199	S* (2x2x0.75)	8.3	8.3	4.7
117201	S* (3x2x0.75)	8.8	9.9	6.3
117202	S* (4x2x0.75)	9.7	12.8	8.2
117203	R* (5x2x0.75)	10.6	14.6	10.5
117204	R* (6x2x0.75)	11.5	18.1	12.3
117205	R* (8x2x0.75)	13.4	23.9	17.6

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PUR actuator-sensor cables · c-track suitable

LÜTZE SUPERFLEX® TRONIC AS PUR, unshielded For highest requirements



Application

- Connecting cable for the actuator-sensor technology
- For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture
- PUR jacket optimally suited for rough operating conditions and aggressive coolants and lubricants

Properties

- Very good alternating bending strength
- Good pressure and roll-over resistance
- Low adhesion, abrasion-resistant, tear resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant
- Weatherproof, ozone and UV resistant (normal lighting conditions)
- Good ruggedness and salt water resistance
- Excellent coolant and lubricant resistance
- Resistant to most oils, greases, alcohol-free benzines and kerosene
- Silicone free
- Halogen free
- RoHS-compliant

Technical data

UL style	AWM 20549
Rated voltage	300 V
Test voltage	AC 3000 V
Insulation resistance at 20 °C	≥ 100 MΩ×km
Temperature according to UL	80 °C
Temperature range moving	-20 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	8×D
Minimum bending radius fixed	4×D
Burning behavior according to	DIN EN 60332-2-2 UL 1581 Horizontal Flame Test UL FT-2
Halogen free according to	DIN EN 60754-1 IEC 60754-1
Conformity	CE RoHS REACH
Approvals	cURus

Construction

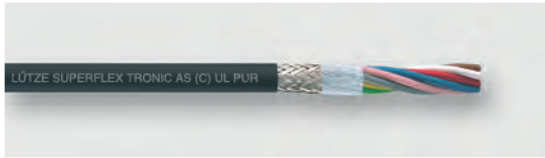
- Conductor: CU-wire bare
- Conductor category: IEC 60228, Class 6, Superfinely stranded DIN VDE 0295, class 6
- Conductor insulation: Special TPE
- Conductor marking: Color coded
- Conductor marking standard: EN 60947-5-2
- Overall stranding: conductors layered construction, layer pitch optimised, conductors twisted without mechanical stress
- Jacket material: PUR
- Surface: adhesion-free, matt
- Jacket color: black RAL 9005

Part-No.	Number of strands/cross-section/strand colors	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
0.25 mm²				
117242	R* 8x0.25 white, brown, green, yellow, grey, pink, blue, red	5.9	4.1	2.1
0.34 mm²				
117243	S* 3x0.34 brown, blue, black	4.2	2.2	1.0
117244	S* 4x0.34 brown, white, blue, black	4.5	2.7	1.3
117245	R* 5x0.34 brown, white, blue, black, grey	4.9	3.2	1.7
117246	R* 5x0.34 brown, white, blue, black, green/yellow	4.9	3.2	1.7
Actuator-sensor connecting cables				
110872	S* 3G1.0 brown, blue, green/yellow 8x0.34 white, black, green, yellow, grey, pink, violet, red	8.2	9.9	5.5
110874	S* 3G1.0 brown, blue, green/yellow 16x0.34 white, green, yellow, grey, pink, red, black, violet, grey/pink, red/blue, white/green, brown/green, white/yellow, yellow/brown, white/grey, grey/brown	9.7	13.5	8.1

CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU

PUR actuator-sensor cables · C-track suitable

LÜTZE SUPERFLEX® TRONIC AS (C) PUR, shielded For highest requirements



Application

- Connecting cable for the actuator-sensor technology
- For continuous flexing use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture
- PUR jacket optimally suited for rough operating conditions and aggressive coolants and lubricants

Properties

- Very good alternating bending strength
- High active and passive interference resistance (EMC)
- Good pressure and roll-over resistance
- Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant
- Weatherproof, ozone and UV resistant (normal lighting conditions)
- Good resistance to use and salt water
- Excellent coolant and lubricant resistance
- Resistant to most oils, greases, alcohol-free benzines and kerosene
- Silicone free
- Halogen free
- RoHS compliant

Technical data

UL style	AWM 20549
Rated voltage	300 V
Test voltage	AC 3000 V
Insulation resistance at 20 °C	≥ 100 MΩ×km
Temperature according to UL	80 °C
Temperature range moving	-20 °C ... +80 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Burning behavior according to	DIN EN 60332-2-2 UL 1581 Horizontal Flame Test UL FT2
Halogen free according to	DIN EN 60754-1 IEC 60754-1
Conformity	CE RoHS REACH
Approvals	cURus

Construction

- Conductor: CU-wire bare
- Conductor category: IEC 60228, Class 6, Superfinely stranded
DIN VDE 0295, class 6
- Conductor insulation: Special TPE
- Conductor marking: Color coded
- Conductor marking standard: EN 60947-5-2
- Overall stranding: conductors layered construction, layer pitch optimised, conductors twisted without mechanical stress
- Overall shield: Braid shield, Tinned copper wires, optical cover approx. 85%
- Jacket material: PUR
- Surface: adhesion-free, matt
- Jacket color: black RAL 9005

Part-No.		Number of strands/cross-section/strand colors	Outer Ø mm	Weight kg/100 m	Cu-index kg/100 m
0.25 mm²					
117250	R*	(3×0.25) brown, blue, black	4.6	2.8	1.7
117251	R*	(4×0.25) brown, white, blue, black	4.9	3.3	2.0
117252	R*	(8×0.25) brown, white, green, yellow, grey, pink, blue, red	6.3	5.5	3.5
0.34 mm²					
117253	S*	(3×0.34) brown, blue, black	4.8	3.2	2.0
117254	S*	(4×,34) brown, white, blue, black	5.1	3.8	2.4
117255	S*	(5×0.34) brown, white, blue, black, grey	5.5	4.5	2.8

CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU

PVC electronic cables · unshielded

LÜTZE ELECTRONIC LIYY Unshielded electronic cable UL recognized



Application

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

Properties

- Minimal cable diameter due to thin-walled PVC conductor insulation according to UL
- Outer jacket special-PVC Class 43 according to UL
- Very good oil resistance
- Resistant to most acids and alkalis (see tech. information)
- Silicone free
- RoHS-compliant

Technical data

UL style	AWM 2464
Rated voltage	300 V
Test voltage	AC 2000 V
Insulation resistance at 20 °C	≥ 20 MΩ×km
Operating capacitance wire-wire	approx. 90 pF/m
Temperature according to UL	80 °C
Temperature range moving	-10 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	5×D
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 Part VW-1 Flame Test UL FT1
Conformity	CE RoHS
Approvals	cURus

Construction

- Conductor: CU-wire bare
- Conductor category: IEC 60228, Class 5, Finely stranded DIN VDE 0295, Class 5
- Conductor insulation: Special PVC
- Conductor marking: Color coded
- Conductor marking standard: DIN 47100
- Overall stranding: layered construction
- Jacket material: Special PVC
- Jacket color: grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
0.14 mm²				
108600	S* 2x0.14	3.7	1.5	0.3
108601	S* 3x0.14	3.8	1.7	0.4
108606	R* 10x0.14	5.7	4.0	1.4
0.25 mm²				
108612	S* 2x0.25	4.2	2.5	0.5
108613	S* 3x0.25	4.4	2.7	0.8
108614	S* 4x0.25	4.8	3.3	1.0
108615	R* 5x0.25	5.3	4.0	1.3
108616	S* 6x0.25	5.5	4.4	1.5
108617	R* 8x0.25	6.2	5.8	2.0
108618	R* 10x0.25	6.9	7.0	2.5
108619	R* 12x0.25	7.2	7.8	3.0
108620	R* 16x0.25	8.0	9.9	4.0
108621	R* 18x0.25	8.4	10.9	4.5
108622	R* 25x0.25	9.8	14.6	6.3
0.34 mm² = 7 × 0.25Ø				
108624	S* 2x0.34	4.7	2.8	0.7
108625	S* 3x0.34	4.9	3.4	1.0
108626	S* 4x0.34	5.4	4.3	1.4
108627	S* 5x0.34	5.8	5.1	1.7
108628	R* 6x0.34	6.3	5.8	2.0
108629	R* 8x0.34	6.8	7.3	2.7
108630	R* 10x0.34	7.7	8.9	3.4
108631	R* 12x0.34	8.1	10.1	4.1
108632	R* 16x0.34	8.9	12.9	5.4
108633	R* 18x0.34	9.4	14.3	6.1
108634	R* 25x0.34	11.0	19.1	8.5
0.5 mm²				
108636	S* 2x0.5	5.3	3.6	1.0
108637	S* 3x0.5	5.5	4.3	1.5
108638	S* 4x0.5	6.0	5.3	2.0
108639	R* 5x0.5	6.5	6.4	2.5
108640	R* 6x0.5	7.0	7.5	3.0
108641	S* 8x0.5	7.6	9.3	4.0
108642	R* 10x0.5	8.7	11.4	5.0
108643	S* 12x0.5	9.1	13.0	6.0
108644	R* 16x0.5	10.1	16.9	8.0
108645	R* 18x0.5	10.6	18.6	9.0
108646	R* 25x0.5	12.6	25.5	12.5
0.75 mm²				
108648	S* 2x0.75	5.8	4.5	1.5

CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU

PVC electronic cables · shielded

LÜTZE ELECTRONIC LIY(C)Y Shielded electronic cable UL recognized



Application

- For interference-free transmission in all areas of electronics, measuring, monitoring and regulation technology
- In low voltage switchgears, communications engineering
- In dry and damp 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 due to 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
- Resistant to most acids and alkalis (see tech. information)
- Silicone free
- RoHS-compliant

Technical data

UL style	AWM 2464
Rated voltage	300 V
Test voltage	AC 2000 V
Insulation resistance at 20 °C	≥ 20 MΩ×km
Operating capacitance wire-wire	approx. 100 pF/m
Operating capacitance wire-shield	approx. 150 pF/m
Temperature according to UL	80 °C
Temperature range moving	-10 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	6×D
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 Part VW-1 Flame Test UL FT1
Conformity	CE RoHS
Approvals	cURus

Construction

- Conductor: CU-wire bare
- Conductor category: IEC 60228, Class 5, Finely stranded DIN VDE 0295, Class 5
- Conductor insulation: Special PVC
- Conductor marking: Color coded
- Conductor marking standard: DIN 47100
- Overall stranding: layered construction
- Overall shield: Braid shield, Tinned copper wires, optical cover approx. 85%
- Jacket material: Special PVC
- Jacket color: grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
0.14 mm²				
108672	R* (4×0.14)	4.6	3.0	1.4
108675	S* (8×0.14)	5.6	4.6	2.2
108677	R* (12×0.14)	6.4	5.9	3.0
0.25 mm²				
108682	S* (2×0.25)	4.7	3.4	1.5
108683	S* (3×0.25)	4.9	3.8	1.8
108684	S* (4×0.25)	5.3	4.6	2.2
108685	S* (5×0.25)	5.8	5.4	2.6
108686	R* (6×0.25)	6.2	6.3	2.9
108687	S* (8×0.25)	6.7	7.5	3.6
108688	R* (10×0.25)	7.5	9.5	4.3
108689	R* (12×0.25)	7.8	10.4	5.0
108690	S* (16×0.25)	8.6	12.5	6.4
108691	R* (18×0.25)	9.0	13.8	8.0
108692	R* (25×0.25)	10.5	18.5	9.8
0.34 mm² = 7 × 0.25				
108694	S* (2×0.34)	5.2	4.2	2.1
108695	S* (3×0.34)	5.4	4.6	2.2
108696	S* (4×0.34)	5.9	5.6	2.8
108697	S* (5×0.34)	6.3	6.6	3.8
108698	S* (6×0.34)	6.8	7.4	3.9
108699	S* (8×0.34)	7.4	9.8	4.5
108700	R* (10×0.34)	8.3	11.3	6.3
108701	S* (12×0.34)	8.7	12.8	6.7
108702	R* (16×0.34)	9.5	15.9	7.9
108703	R* (18×0.34)	10.0	17.3	9.2
108704	R* (25×0.34)	11.6	22.6	12.3
0.5 mm²				
108706	S* (2×0.5)	5.8	4.9	2.2
108707	S* (3×0.5)	6.0	5.9	2.8
108708	S* (4×0.5)	6.3	6.5	3.4
108709	S* (5×0.5)	7.0	8.3	4.4
108710	S* (6×0.5)	7.6	9.9	6.8
108711	S* (8×0.5)	8.2	11.9	8.5
108712	S* (10×0.5)	9.3	14.3	10.0
108713	R* (12×0.5)	9.7	16.2	11.2
108714	R* (16×0.5)	10.7	20.4	14.0
108715	R* (18×0.5)	11.2	22.3	15.2
108716	S* (25×0.5)	13.2	29.8	19.5
0.75 mm²				
108718	S* (2×0.75)	6.3	6.1	2.8
108719	S* (3×0.75)	6.6	7.1	4.9
108720	S* (4×0.75)	7.2	9.5	5.8
108724	R* (10×0.75)	10.4	19.1	13.0

CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU

PVC electronic cables · shielded

LÜTZE ELECTRONIC LIY(C)Y TP

Shielded electronic cable UL recognized, paired



Application

- For interference-free transmission in all areas of electronics, measuring, monitoring and regulation technology
- In low voltage switchgears, communications engineering
- In dry and damp 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 due to thin-walled PVC conductor insulation according to UL
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Technical data

UL style	AWM 2464
Rated voltage	300 V
Test voltage	AC 2000 V
Insulation resistance at 20 °C	≥ 20 MΩ×km
Operating capacitance wire-wire	approx. 110 pF/m
Operating capacitance wire-shield	approx. 160 pF/m
Temperature according to UL	80 °C
Temperature range moving	-10 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	6×D
Burning behavior according to	IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 Part VW-1 Flame Test UL FT1
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- Conductor insulation: Special PVC
- Conductor marking: Color coded
- Conductor marking standard: DIN 47100
- Overall stranding: stranded pairs
- Overall shield: Braid shield, Tinned copper wires, optical cover approx. 85%
- Jacket material: Special PVC
- Surface:
- Jacket color: grey RAL 7032

Part-No.	Number of conductors/cross-section	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
0.25 mm²				
108751	S* (2×2×0.25)	6.3	5.3	2.8
108753	S* (4×2×0.25)	7.4	8.0	4.0
108754	R* (5×2×0.25)	8.0	10.3	5.0
108755	S* (6×2×0.25)	9.1	12.0	7.0
108756	R* (8×2×0.25)	9.6	14.4	7.5
0.34 mm² = 7 × 0.25Ø				
108761	S* (2×2×0.34)	7.1	6.9	2.7
108763	S* (4×2×0.34)	8.4	10.4	6.1
108764	R* (5×2×0.34)	9.3	12.7	6.6
108765	R* (6×2×0.34)	10.1	14.9	7.5
108766	S* (8×2×0.34)	10.7	18.1	9.7
0.5 mm²				
108771	R* (2×2×0.5)	8.1	9.4	4.6
108773	R* (4×2×0.5)	9.5	12.9	8.7
108774	R* (5×2×0.5)	10.5	15.8	10.4
108775	R* (6×2×0.5)	11.4	18.7	11.8
108776	R* (8×2×0.5)	12.1	22.6	14.0
0.75 mm²				
108934	S* (2×2×0.75)	9.0	11.4	6.7
108936	R* (5×2×0.75)	11.6	10.8	12.6
108938	R* (8×2×0.75)	13.6	16.0	18.0

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