

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* 2×0.14	3.6	1.4	0.3
117031	R* 3×0.14	3.7	1.6	0.4
117032	S* 4×0.14	4.1	1.9	0.6
117033	R* 5×0.14	4.4	2.2	0.7
117034	S* 7×0.14	5.0	2.9	1.0
117035	S* 10×0.14	5.7	3.7	1.4
117036	R* 12×0.14	5.9	4.1	1.7
117027	S* 15×0.14	6.5	4.9	2.2
117037	R* 18×0.14	6.8	5.7	2.7
117038	S* 25×0.14	8.1	7.9	3.6
AWG 24 / 0,25 mm²				
117039	S* 2×0.25	3.8	1.8	0.5
117040	S* 3×0.25	4.2	2.1	0.8
117041	S* 4×0.25	4.4	2.5	1.0
117042	S* 5×0.25	4.8	2.9	1.3
117043	S* 7×0.25	5.6	3.8	1.8
117044	S* 10×0.25	6.3	5.0	2.5
117045	S* 12×0.25	6.4	5.6	3.0
117028	S* 15×0.25	7.1	6.5	3.5
117046	S* 18×0.25	7.6	7.9	4.5
117047	S* 25×0.25	8.9	10.8	6.3
0.34 mm²				
117048	S* 2×0.34	4.1	2.1	0.7
117049	S* 3×0.34	4.5	2.4	1.0
117050	S* 4×0.34	4.6	2.9	1.3
117051	R* 5×0.34	5.2	3.4	1.7
117052	S* 7×0.34	6.0	4.5	2.4
117053	S* 10×0.34	6.9	5.9	3.4
117054	S* 12×0.34	6.9	6.8	4.0
117029	S* 15×0.34	7.6	8.4	5.0
117055	R* 18×0.34	7.9	9.6	6.1
117056	S* 25×0.34	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

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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	12×D
Minimum bending radius fixed	6×D
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* (2×2×0.25)	6.2	4.4	2.2
117171	S* (3×2×0.25)	6.5	5.0	2.8
117172	S* (4×2×0.25)	6.8	5.7	3.4
117173	S* (5×2×0.25)	7.7	7.3	4.0
117177	S* (6×2×0.25)	8.1	8.0	4.7
117174	S* (8×2×0.25)	9.4	11.3	6.0
117175	S* (10×2×0.25)	10.5	12.4	7.9
117176	S* (12×2×0.25)	10.8	14.1	9.1
0.34 mm²				
117180	S* (2×2×0.34)	6.5	4.7	2.6
117181	S* (3×2×0.34)	6.8	5.8	3.4
117182	S* (4×2×0.34)	7.4	7.0	4.2
117183	S* (5×2×0.34)	8.1	8.2	5.1
117184	R* (6×2×0.34)	8.6	9.6	5.9
117185	S* (8×2×0.34)	10.0	13.0	8.3
117186	R* (10×2×0.34)	10.9	14.9	10.0
117187	S* (12×2×0.34)	11.4	16.8	11.4
0.5 mm²				
117190	S* (2×2×0.5)	7.1	5.9	3.4
117191	S* (3×2×0.5)	7.5	7.1	4.5
117303	S* (4×2×0.5)	8.3	8.8	5.7
117192	S* (5×2×0.5)	9.0	10.4	6.8
117193	S* (6×2×0.5)	9.9	13.6	8.0
117194	R* (8×2×0.5)	11.5	17.0	11.2
117195	S* (10×2×0.5)	12.2	19.3	13.5
117196	R* (12×2×0.5)	12.6	22.3	15.6
0.75 mm²				
117199	S* (2×2×0.75)	8.3	8.3	4.7
117201	S* (3×2×0.75)	8.8	9.9	6.3
117202	S* (4×2×0.75)	9.7	12.8	8.2
117203	R* (5×2×0.75)	10.6	14.6	10.5
117204	R* (6×2×0.75)	11.5	18.1	12.3
117205	R* (8×2×0.75)	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

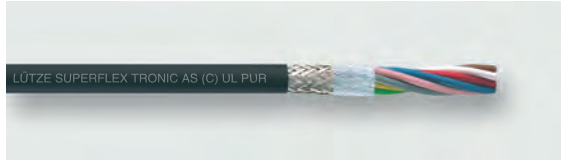
- Conductor: CU-wire bare
- Conductor category: IEC 60228, Class 6, Superfinely stranded DIN VDE 0295, class 6
- Conductor insulation: Special TPE
- Conductor marking: Color coded
- Conductor marking standard: EN 60947-5-2
- Overall stranding: conductors layered construction, layer pitch optimised, conductors 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*	8×0.25 white, brown, green, yellow, grey, pink, blue, red	5.9	4.1	2.1
0.34 mm²					
117243	S*	3×0.34 brown, blue, black	4.2	2.2	1.0
117244	S*	4×0.34 brown, white, blue, black	4.5	2.7	1.3
117245	R*	5×0.34 brown, white, blue, black, grey	4.9	3.2	1.7
117246	R*	5×0.34 brown, white, blue, black, green/yellow	4.9	3.2	1.7
Actuator-sensor connecting cables					
110872	S*	3G1.0 brown, blue, green/yellow 8×0.34 white, black, green, yellow, grey, pink, violet, red	8.2	9.9	5.5
110874	S*	3G1.0 brown, blue, green/yellow 16×0.34 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

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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

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