LÜTZE SUPERFLEX® and LÜTZE SUPERFLEX® PLUS

LÜTZE SUPERFLEX®

connected

LÜTZE SUPERFLEX® sets Industry Standards: longevity, reliability, flexibility

LÜTZE SUPERFLEX® flexing cables are specifically designed for use in continuous motion applications such as drag chains.

Find here more informations about LÜTZE SUPERFLEX®
http://bit.ly/ZUdgUK

LÜTZE SUPERFLEX® N PVC
For medium to high requirements

Application
- Machine and device construction, transport and conveyor technology, HVAC technology
- In dry and damp rooms
- As a monitoring, measurement and control cable in continuously moving applications
- For installation in energy chains with constant linear movement

Properties
- Construction and material suitable for continuous movement application.
- PVC Flame-retardant, self-extinguishing
- Resistant to most oils, greases, acids and alkalis (see tech. information)
- Silicone free
- RoHS-compliant

Technical data

Voltage	
U_0/U	300/500 V
Test voltage	3000 V
Insulation resistance	min. 20 MΩ × km
Temperature range	
moving	-15 °C to +80 °C
fixed	-30 °C to +80 °C
Minimum bending radius	
moving	D × 10
fixed	D × 4
Radiation-resistance	8×10^7 cJ/kg
Burning behavior	Flame-retardant according to VDE 0482 part 265-2-2 DIN EN 50265-2-2 IEC 60332-2-2

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special PVC TI2 according to VDE 0281-1
- Conductors black with white number print according to DIN EN 50334
- Ground conductor green/yellow according to DIN EN 50334 in the top layer
  G = with green/yellow ground conductor, × = without ground conductor
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Jacket special-PVC TM2 and TM4 according to VDE 0281
- Jacket color grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
0.5 mm²				
101049	3G0.5	5.0	3.8	1.5
118383	4G0.5	5.4	4.7	2.0
118393	5G0.5	5.9	5.6	2.5
118384	7G0.5	6.8	7.3	3.4
101351	12G0.5	8.1	11.1	5.9
101048	18G0.5	9.4	15.6	8.8
108055	25G0.5	11.1	21.3	12.3
0.75 mm²				
100765	2×0.75	5.4	4.4	1.5
100766	3G0.75	5.5	5.0	2.2
111045	4G0.75	6.0	6.1	2.9
100767	5G0.75	6.5	7.3	3.7
100768	7G0.75	7.5	10.0	5.1
100998	12G0.75	9.1	14.9	8.8
100778	18G0.75	10.6	21.3	13.2
100856	25G0.75	12.6	29.0	18.3
1.0 mm²				
100788	2×1.0	5.7	5.2	2.0
100789	3G1.0	6.0	6.4	3.0
100761	4G1.0	6.5	7.6	4.0
100777	5G1.0	7.0	9.0	5.0
100790	7G1.0	8.2	12.7	6.9
100791	12G1.0	9.8	18.5	11.9
100782	18G1.0	11.5	27.1	17.8
100784	25G1.0	13.7	36.8	24.8
1.5 mm²				
101424	2×1.5	6.3	6.5	2.9
100796	3G1.5	6.6	8.2	4.4
100787	4G1.5	7.2	10.1	5.9
100808	5G1.5	7.8	12.3	7.4
100792	7G1.5	9.2	17.0	10.3
100793	12G1.5	11.2	25.6	17.6
100794	18G1.5	13.0	36.8	26.5
100795	25G1.5	15.6	51.4	36.8
2.5 mm²				
100987	2×2.5	8.0	10.8	4.8
100893	3G2.5	8.3	13.3	7.3
100707	4G2.5	9.1	16.5	9.7
100769	5G2.5	9.9	19.9	12.2
100797	7G2.5	11.8	28.1	17.0
100807	12G2.5	14.3	42.2	29.2
100900	18G2.5	16.8	62.4	43.8
4 mm²				
108049	4G4	11.8	30.0	15.4

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

PVC control cables · C-track compatible · shielded

LÜTZE SUPERFLEX® N (C) PVC
For medium to high requirements

LÜTZE SUPERFLEX®

CE RoHS

Application
- Machine and device construction, transport and conveyor technology, HVAC technology
- In dry and damp rooms
- As a monitoring, measurement and control cable in continuously moving applications
- For installation in energy chains with constant linear movement
- Anywhere where electrical interference fields can influence the signal transmission

Properties
- Construction and material suitable for continuous movement application.
- High active and passive interference resistance
- PVC Flame-retardant, self-extinguishing
- Resistant to most oils, greases, acids and alkalis (see tech. information)
- Silicone free
- RoHS-compliant

Technical data

Voltage	
U_0/U	300/500 V
Test voltage	3000 V
Insulation resistance	min. 20 MΩ × km
Temperature range	
moving	-15 °C to +80 °C
fixed	-30 °C to +80 °C
Minimum bending radius	
moving	D × 12
fixed	D × 6
Radiation-resistance	8×10^7 cJ/kg
Burning behavior	Flame-retardant according to VDE 0482 part 265-2-2 DIN EN 50265-2-2 IEC 60332-2-2

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special PVC TI2 according to VDE 0281-1
- Conductors black with white number print according to DIN EN 50334
- Ground conductor green/yellow according to DIN EN 50334 in the top layer
  G = with green/yellow ground conductor, × = without ground conductor
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Sub jacket PVC
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Fleece wrap over cable core
- Jacket special-PVC TM2 and TM4 according to VDE 0281
- Jacket color grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
0.5 mm²				
110446	(2×0.5)	6.6	7.1	2.2
101288	(3G0.5)	6.8	6.8	2.8
108800	(4G0.5)	7.0	7.4	3.4
118039	(5G0.5)	7.6	9.1	4.0
108801	(7G0.5)	8.5	11.0	5.5
108802	(12G0.5)	10.0	15.0	8.0
0.75 mm²				
110489	(2×0.75)	7.1	7.5	2.8
108803	(3G0.75)	7.2	8.2	3.6
108000	(4G0.75)	7.0	7.4	3.4
111245	(5G0.75)	8.3	11.4	5.4
108001	(7G0.75)	8.6	13.1	7.0
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
1.0 mm²				
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
1.5 mm²				
110947	(2×1.5)	8.0	10.3	4.8
110954	(3G1.5)	8.4	11.9	6.6
110499	(4G1.5)	9.0	14.4	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
2.5 mm²				
110608	(3G2.5)	10.0	18.6	10.3
108003	(4G2.5)	10.9	22.3	13.0
110701	(5G2.5)	11.0	25.9	15.8
111329	(7G2.5)	13.0	32.6	21.0

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LÜTZE SUPERFLEX® N PVC
For high requirements

Application
- Machine and device construction, transport and conveyor technology, HVAC technology
- In dry and damp rooms
- As a monitoring, measurement and control cable for industrial applications
- For installation in energy chains with constant linear movement

Properties
- Very small cable diameters due to special TPE conductor insulation (HGI) according to UL standard
- Reduced friction due to high glide conductor insulation (HGI) for high mechanical loads
- Flexibility due to super finely stranded wire construction
- Low capacitance, very good electrical properties
- Especially developed PVC jacket according to UL class 43
- Filler without wicking
- Low adhesion, abrasion-resistant, nick-resistant, tear resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant
- Use in dry or damp environment
- Silicone free
- RoHS-compliant

Technical data

UL approval	AWM 20207
Nominal voltage	600 V 80 °C
Test voltage	3000 V
Insulation resistance	min. 100 MΩ × km
Temperature range	
moving	-5 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 7.5
fixed	D × 4
Burning behavior	Flame-retardant according to UL VW-1; DIN EN 50265-2-1
Approvals	cURus AWM Style 20207 IEC 60332-1, FT1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special TPE, high glide
- Conductors black with white number print according to DIN EN 50334
- Ground conductor green/yellow according to DIN EN 50334 in the top layer
  G = with green/yellow ground conductor, × = without ground conductor
- Conductors cabled in layers without mechanical stress, pitch layer optimised
- Fleece wrap over cable core
- Jacket special PVC according VDE 0207 TM5 and UL class 43
- Jacket color grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
0.5 mm²				
A1382003	3G0.5	5.7	4.5	1.5
A1382004	4G0.5	6.3	5.5	2.0
A1382005	5G0.5	6.8	6.4	2.5
A1382007	7G0.5	7.9	8.3	3.4
A1382012	12G0.5	9.5	12.3	5.9
A1382018	18G0.5	11.1	17.5	8.8
A1382025	25G0.5	13.2	23.8	12.3
1.0 mm²				
A1381803	3G1.0	6.6	6.6	2.9
A1381804	4G1.0	7.2	8.1	4.0
A1381805	5G1.0	7.8	9.5	5.0
A1381807	7G1.0	9.2	13.5	6.9
A1381812	12G1.0	11.1	19.5	11.9
A1381818	18G1.0	13.0	27.9	17.8
A1381825	25G1.0	15.5	38.4	24.7
A1381834	34G1.0	17.8	50.4	33.7
A1381841	41G1.0	19.0	59.3	41.2
1.5 mm²				
A1381603	3G1.5	7.2	8.7	4.4
A1381604	4G1.5	7.9	10.6	5.9
A1381605	5G1.5	8.7	12.8	7.4
A1381607	7G1.5	10.2	18.0	10.3
A1381612	12G1.5	12.4	26.7	17.6
A1381618	18G1.5	14.5	37.9	26.5
A1381625	25G1.5	17.4	52.1	34.4
2.5 mm²				
A1381404	4G2.5	9.1	16.0	9.8
A1381405	5G2.5	10.1	26.8	12.2
A1381407	7G2.5	12.0	25.3	17.0
4 mm²				
A1381204	4G4	10.8	23.2	15.6
A1381207	7G4	14.0	39.8	27.3

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PVC control cables · C-track compatible · shielded

LÜTZE SUPERFLEX® N (C) PVC
For high requirements

Application
- Machine and device construction, transport and conveyor technology, HVAC technology
- In dry and damp rooms
- As a monitoring, measurement and control cable for industrial applications
- For installation in energy chains with constant linear movement
- Anywhere where electrical interference fields can influence the signal transmission

Properties
- Very small cable diameters due to special TPE conductor insulation (HGI) according to UL standard
- Reduced friction due to high glide conductor insulation (HGI) for high mechanical loads
- Low capacitance, very good electrical properties
- Especially developed PVC jacket according to UL class 43
- Filler without wick effect
- Low adhesion, abrasion-resistant, nick-resistant, tear resistant
- Hydrolysis-resistant, microbe-resistant, and rot-resistant
- Use in dry or damp environment
- Silicone free
- RoHS-compliant

Technical data

UL approval	AWM 2570
Nominal voltage	600 V 80 °C
Test voltage	3000 V
Insulation resistance	min. 100 MΩ × km
Temperature range	
moving	-5 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 10
fixed	D × 6
Burning behavior	Flame-retardant according to UL Cable Flame, DIN EN 50265-2-1, FT1
Approvals	cURus AWM Style 2570 IEC 60332-1, FT1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special TPE, high glide
- Conductors black with white number print according to DIN EN 50334
- Ground conductor green/yellow according to DIN EN 50334 in the top layer
  G = with green/yellow ground conductor, × = without ground conductor
- Conductors cabled in layers without mechanical stress, pitch layer optimised
- Fleece wrap over cable core
- Sub jacket PVC
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special PVC according VDE 0207 TM5 and UL class 43
- Jacket color grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
0.5 mm²				
A1392003	(3G0.5)	7.4	7.7	3.1
A1392004	(4G0.5)	7.8	8.7	3.7
A1392005	(5G0.5)	8.5	10.2	4.4
A1392007	(7G0.5)	9.7	13.5	6.4
A1392012	(12G0.5)	11.3	18.5	9.6
A1392018	(18G0.5)	13.1	25.2	13.9
A1392025	(25G0.5)	15.1	30.1	17.8
1.0 mm²				
A1391803	(3G1.0)	8.2	10.3	4.8
A1391804	(4G1.0)	8.8	14.7	6.0
A1391805	(5G1.0)	9.6	14.7	8.0
A1391807	(7G1.0)	11.0	18.9	10.5
A1391812	(12G1.0)	13.0	26.8	16.4
A1391818	(18G1.0)	14.9	36.8	24.0
A1391825	(25G1.0)	16.2	47.4	33.5
1.5 mm²				
A1391603	(3G1.5)	8.8	12.6	6.5
A1391604	(4G1.5)	9.6	15.5	8.9
A1391605	(5G1.5)	10.4	18.2	10.7
A1391607	(7G1.5)	11.9	23.5	14.2
A1391612	(12G1.5)	14.1	34.7	22.5
A1391618	(18G1.5)	16.2	47.4	33.5
A1391625	(25G1.5)	19.4	64.3	46.5
2.5 mm²				
A1391404	(4G2.5)	11.0	21.7	13.4
A1391405	(5G2.5)	11.9	25.4	16.2
A1391407	(7G2.5)	13.6	32.2	21.3
4 mm²				
A1391204	(4G4)	12.6	30.2	20.1
A1391207	(7G4)	15.9	33.2	33.2

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PUR control cables · C-track compatible · unshielded

LÜTZE SUPERFLEX® PLUS N PUR 300 V
For highest requirements

Application
- Machine and device construction, transport and conveyor technology, HVAC technology
- In areas with high concentrations of people or material assets, where corrosive gases need to be avoided in the event of fire
- As a monitoring, measurement and control cable for industrial applications
- Especially for rough environments
- For installation in energy chains with constant linear movement

Properties
- Reduced friction due to high glide conductor insulation (HGI) for high mechanical loads
- 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
- 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
- RoHS-compliant

Technical data

UL approval	AWM 20233
Nominal voltage	300 V 80 °C
Voltage	
U_0/U	300/500 V
Test voltage	3000 V
Insulation resistance	min. 1000 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 7.5
fixed	D × 4
Radiation-resistance	5×10^6 cJ/kg
Burning behavior	Flame-retardant according to VDE 0482 part 265-2; DIN EN 50265-2, IEC 60332-1, UL 1581 section Cable Flame-Test, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special TPE, high glide
- Conductors black with white number print according to DIN EN 50334
- Ground conductor green/yellow according to DIN EN 50334 in the top layer
  G = with green/yellow ground conductor, × = without ground conductor
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Jacket full PUR
- Jacket color grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
0.5 mm²				
113431	2×0.5	4.8	2.9	1.0
113441	3G0.5	5.0	3.4	1.5
113442	4G0.5	5.4	4.1	2.0
113443	5G0.5	5.8	4.8	2.5
113444	7G0.5	6.7	6.6	3.4
113446	12G0.5	8.0	9.7	5.9
113438	18G0.5	9.3	13.8	8.8
113447	25G0.5	11.0	18.9	12.3
0.75 mm²				
113432	2×0.75	5.2	3.7	1.5
113445	3G0.75	5.5	4.4	2.2
113439	3×0.75	5.5	4.4	2.2
113435	4G0.75	5.9	5.4	2.9
113422	5G0.75	6.5	6.6	3.3
113437	7G0.75	7.5	8.8	5.1
113425	12G0.75	9.0	13.4	8.8
113428	18G0.75	10.5	19.0	13.2
113448	25G0.75	12.4	26.0	18.3
1.0 mm²				
113484	2×1.0	5.6	4.2	2.0
113400	3G1.0	5.9	5.4	3.0
113433	4G1.0	6.4	6.8	4.0
113401	5G1.0	7.0	8.1	5.0
113402	7G1.0	8.2	11.2	6.9
113403	12G1.0	9.8	16.9	11.9
113404	18G1.0	11.4	24.4	17.8
113405	25G1.0	13.6	33.4	24.8

CE These products are in conformity with the EC Low Voltage Directive73/23/EWG or 93/68/EWG respectively

PUR control cables · C-track compatible · unshielded

LÜTZE SUPERFLEX® PLUS N PUR 600 V
For highest requirements

Application
- Machine and device construction, transport and conveyor technology, HVAC technology
- In areas with high concentrations of people or material assets, where corrosive gases need to be avoided in the event of fire
- As a monitoring, measurement and control cable for industrial applications
- Especially for rough environments
- For installation in energy chains with constant linear movement

Properties
- Reduced friction due to high glide conductor insulation (HGI) for high mechanical loads
- 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
- 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
- RoHS-compliant

Technical data

UL approval	AWM 20234
Nominal voltage	600 V 80 °C
Voltage	
U_0/U	300/500 V
Test voltage	6000 V
Insulation resistance	min. 1000 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 7.5
fixed	D × 4
Radiation-resistance	5×10^8 cJ/kg
Burning behavior	Flame-retardant according to VDE 0482 part 265-2; DIN EN 50265-2, IEC 60332-1, UL 1581 section Cable Flame-Test, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special TPE, high glide
- Conductors black with white number print according to DIN EN 50334
- Ground conductor green/yellow according to DIN EN 50334 in the top layer
  G = with green/yellow ground conductor, × = without ground conductor
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Jacket full PUR
- Jacket color grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
1.0 mm²				
113570	2×1.0	7.1	6.1	2.0
113571	3G1.0	7.4	7.3	3.0
113572	4G1.0	8.0	8.7	4.0
113573	5G1.0	8.7	10.5	5.0
113574	7G1.0	10.0	13.9	6.9
113575	12G1.0	12.0	20.5	11.9
113576	18G1.0	13.8	28.9	17.9
113577	25G1.0	16.4	39.3	24.8
1.5 mm²				
113485	2×1.5	7.7	7.6	2.9
113406	3G1.5	8.0	9.2	4.4
113412	4G1.5	8.8	11.3	5.9
113407	5G1.5	9.5	13.6	7.4
113408	7G1.5	11.0	18.4	10.3
113409	12G1.5	13.2	27.2	17.6
113410	18G1.5	15.3	38.9	26.5
113411	25G1.5	18.2	54.0	36.8
2.5 mm²				
113483	3G2.5	9.2	13.3	7.3
113415	4G2.5	10.0	16.3	9.7
113416	5G2.5	10.9	19.7	12.2
113417	7G2.5	12.8	27.3	17.0
113426	12G2.5	15.3	40.7	29.2
113479	18G2.5	17.8	58.9	43.8

CE These products are in conformity with the EC Low Voltage Directive73/23/EWG or 93/68/EWG respectively

LÜTZE SUPERFLEX® PLUS N (C) PUR 300 V
For highest requirements

Application
- Machine and device construction, transport and conveyor technology, HVAC technology
- In areas with high concentrations of people or material assets, where corrosive gases need to be avoided in the event of fire
- As a monitoring, measurement and control cable for industrial applications
- Especially for rough environments
- For installation in energy chains with constant linear movement
- Anywhere where electrical interference fields can influence the signal transmission

Properties
- Reduced friction due to high glide conductor insulation (HGI) for high mechanical loads
- 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
- 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
- RoHS-compliant

Technical data

UL approval	AWM 20233
Nominal voltage	300 V 80 °C
Voltage	
U_0/U	300/500 V
Test voltage	3000 V
Insulation resistance	min. 1000 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 10
fixed	D × 6
Radiation-resistance	5×10^8 cJ/kg
Burning behavior	Flame retardant according to VDE 0482 Teil 265-2; DIN EN 50265-2, IEC 60332-1, UL 1581 section VW-1 Cable Flame-Test, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special TPE, high glide
- Conductors black with white number print according to DIN EN 50334
- Ground conductor green/yellow according to DIN EN 50334 in the top layer
  G = with green/yellow ground conductor, × = without ground conductor
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Sub jacket TPE
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket full PUR
- Jacket color grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
0.5 mm²				
113300	(3G0.5)	6.6	5.6	2.7
113347	(4G0.5)	7.0	6.4	3.3
113301	(5G0.5)	7.5	7.3	3.9
113302	(7G0.5)	8.3	9.1	5.1
113303	(12G0.5)	9.7	12.8	7.9
113304	(18G0.5)	11.0	17.9	11.9
113305	(25G0.5)	12.0	23.4	15.9
0.75 mm²				
113328	(2×0.75)	6.9	6.3	2.8
113306	(3G0.75)	7.5	7.2	3.6
113430	(3×0.75)	7.5	7.2	3.6
113325	(4G0.75)	7.8	8.4	4.5
113345	(4×0.75)	7.8	8.4	4.5
113307	(5G0.75)	8.3	9.7	5.3
113308	(7G0.75)	9.4	12.4	7.1
113309	(12G0.75)	11.3	18.8	12.0
113310	(18G0.75)	13.0	25.4	16.9
113311	(25G0.75)	14.9	33.4	22.8
1.0 mm²				
113312	(3G1.0)	7.8	8.4	4.5
113324	(4G1.0)	8.3	9.9	5.6
113313	(5G1.0)	9.1	11.4	6.8
113314	(7G1.0)	10.2	14.7	9.1
113315	(12G1.0)	12.1	22.5	15.4
113316	(18G1.0)	14.0	30.6	22.0
113317	(25G1.0)	15.8	41.5	30.5

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

PUR control cables · C-track compatible · shielded

LÜTZE SUPERFLEX® PLUS N (C) PUR 600 V
For highest requirements

Application
- Machine and device construction, transport and conveyor technology, HVAC technology
- In areas with high concentrations of people or material assets, where corrosive gases need to be avoided in the event of fire
- As a monitoring, measurement and control cable for industrial applications
- Especially for rough environments
- For installation in energy chains with constant linear movement
- Anywhere where electrical interference fields can influence the signal transmission

Properties
- Reduced friction due to high glide conductor insulation (HGI) for high mechanical loads
- 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
- 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
- RoHS-compliant

Technical data

UL approval	AWM 20234
Nominal voltage	600 V 80 °C
Voltage	
U_0/U	300/500 V
Test voltage	6000 V
Insulation resistance	min. 1000 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 10
fixed	D × 6
Radiation-resistance	5×10^8 cJ/kg
Burning behavior	Flame-retardant according to VDE 0482 part 265-2; DIN EN 50265-2, IEC 60332-1, UL 1581 section Cable Flame-Test, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special TPE, high glide
- Conductors black with white number print according to DIN EN 50334
- Ground conductor green/yellow according to DIN EN 50334 in the top layer
  G = with green/yellow ground conductor, × = without ground conductor
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Sub jacket TPE
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket full PUR
- Jacket color grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
1.0 mm²				
113360	(3G1.0)	9.0	10.8	4.7
113361	(4G1.0)	9.6	12.6	5.8
113362	(5G1.0)	10.4	14.6	7.8
113363	(7G1.0)	11.8	19.7	10.1
113364	(12G1.0)	13.8	27.4	15.8
113365	(18G1.0)	15.7	37.7	22.4
113366	(25G1.0)	18.5	51.9	33.2
1.5 mm²				
113346	(2×1.5)	9.3	11.5	4.7
113318	(3G1.5)	9.7	13.1	6.3
113331	(4G1.5)	10.5	16.0	8.7
113319	(5G1.5)	11.2	18.7	10.4
113320	(7G1.5)	12.8	24.2	13.8
113321	(12G1.5)	14.9	35.4	22.0
113322	(18G1.5)	17.2	48.7	32.4
113323	(25G1.5)	20.1	65.3	46.3
2.5 mm²				
113341	(3G2.5)	10.9	18.4	9.6
113332	(4G2.5)	11.8	22.3	12.9
113339	(5G2.5)	12.6	25.9	15.7
113340	(7G2.5)	14.6	35.2	21.2
113344	(12G2.5)	17.4	52.9	35.6
113342	(18G2.5)	19.9	73.1	53.2

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

LÜTZE SUPERFLEX® CAN-BUS (C) PUR
For highest requirements

Application
- For wiring of industrial field bus systems like CAN-BUS
- for continuous flexible use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture

Properties
- High active and passive interference resistance (EMC)
- Silicone free
- Halogen free
- RoHS-compliant

Technical data

Rated voltage	300 V
Test voltage	3000 V
Impedance	nom. 120 Ω
Operating capacitance	<60 pF/m
Temperature range	
moving	-30 °C to +70 °C
fixed	-40 °C to +75 °C
Minimum bending radius	
moving	D × 15
fixed	D × 7.5
Burning behavior	Flame-retardant according to VDE 0482 part 265-2; IEC 60332-1 UL 1581 section VW-1 Flame-Test, CSA FT 1
Halogen free	according to EN 50267-2-1
Approvals	cULus CMX

Construction
- Bare copper wire
- Conductor insulation Special polyolefin
- Stranded pair conductors or star quad, foil tape
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special PUR, matte, adhesion-free surface
- Jacket color violet RAL 4001

Part-No.	Number of strands/cross-section/ strand colors	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
CAN-BUS UL/CMX, 40 m max.				
104390	(1×2×AWG24) white/brown	5.4	4.4	2.4
104391	(2×2×AWG24) white/brown, green/yellow	7.2	7.2	3.3

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

LÜTZE ELECTRONIC INTERBUS (C) PVC

Application
- For wiring of industrial field bus systems such as Interbus
- For fixed installation or moving use without continuous flexing in the automation technology, transport and conveyor technology, machine tool manufacture

Properties
- High active and passive interference resistance (EMC)
- Silicone free
- RoHS-compliant

Technical data

UL approval	AWM 21500
Nominal voltage	300 V 60 °C
Test voltage	1500 V
Impedance	nom. 100 Ω
Loop resistance	<165 Ω/km
Operating capacitance	<60 pF/m
Temperature range	
moving	-10 °C to +70 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 15
fixed	D × 7.5
Burning behavior	Flame-retardant according to VDE 0482 part 265-2; IEC 60332-1 UL Horizontal Flame

Construction
- Bare copper wire
- Wire according to AWG or DIN
- Conductor insulation Special polyolefin
- Conductors stranded pairs, foil tape
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special PVC TM2 according to VDE 0281-1, matte, adhesion-free surface
- Jacket color violet RAL 4001

Part-No.	Number of strands/cross-section/ strand colors	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
104207	(3×2×0.22) white/brown, green/yellow, grey/pink	7.5	5.5	3.2

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

LÜTZE SUPERFLEX® INTERBUS (C) PUR

Application
- For wiring of industrial field bus systems such as Interbus
- For continuous flexible use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture

Properties
- High active and passive interference resistance (EMC)
- Silicone free
- Halogen free
- RoHS-compliant

Technical data

UL approval	AWM 20549
Nominal voltage	300 V 80 °C
Test voltage	3000 V
Impedance	nom. 100 Ω
Loop resistance	<155 Ω/km
Operating capacitance	<60 pF/m
Temperature range	
moving	-20 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 12
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2; IEC 60332-1 UL 1581 section VW-1 Flame-Test, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire
- Wire according to AWG or DIN
- Conductor insulation Special polyolefin
- Conductors stranded pairs, foil tape
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color violet RAL 4001

Part-No.	Number of strands/cross-section/ strand colors	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
104258	(3×2×0.24) white/brown; green/yellow; grey/pink	7.7	6.5	2.9
104259	(3G1.0+3×2×0.24) white/brown; green/yellow; grey/pink	8.5	9.9	6.5

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

LÜTZE ELECTRONIC DeviceNet™ (C) PVC

Application
- For the wiring of industrial devices, sensors, control devices (SPS), valves
- DeviceNet™ is the leading BUS system for industry automation in the USA
- For fixed wiring or moving applications without continuous flexing in the automation technology, transport and conveyor technology, machine tool manufacture

Properties
- High active and passive interference resistance (EMC)
- Silicone free
- RoHS compliant

Technical data

Rated voltage	300 V
Test voltage	2000 V
Impedance	nom. 120 Ω
Loop resistance	
AWG 16	<22.6 Ω/km
AWG 18	<54.4 Ω/km
AWG 22	<114.8 Ω/km
AWG 24	<181.8 Ω/km
Operating capacitance	<40 pF/m
Temperature range	
moving	-10 °C to +75 °C
fixed	-40 °C to +75 °C
Minimum bending radius	
moving	D × 10
fixed	D × 5
Burning behavior	Flame-retardant according to VDE 0482 part 265-2, IEC 60332-3-24 UL 1581 section VW-1 Flame-Test, CSA FT 4
Approvals	cULus CMG UL AWM 20201 600 V 60 °C

Construction
- Tinned copper wire
- Conductor insulation Special polyolefin (BUS element)
- Overall shield: Braid from galvanised Cu wire, optical coverage ≥ 70 %
- Jacket special-PVC, matte, adhesion-free surface
- Jacket color violet RAL 4001

Part-No.	Number of strands/cross-section/ strand colors	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
DeviceNet™ Thick UL/CMG, PLTC				
104288	((2xAWG18)+(2xAWG16)) white/blue, red/black	12.2	20.1	8.8
DeviceNet™ Thin UL/CMG/CL2				
104282	((2xAWG24)+(2xAWG22)) white/blue, red/black	7.0	6.6	3.2

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

LÜTZE SUPERFLEX® DeviceNet™ (C) PUR
For highest requirements

Application
- For the wiring of industrial devices, sensors, control devices (SPS), valves
- DeviceNet™ is the leading BUS system for industry automation in the USA
- For continuous flexible use e.g. in c-tracks or free movement in the automation technology, transport and conveyor technology, machine tool manufacture

Properties
- High active and passive interference resistance (EMC)
- Silicone free
- RoHS compliant

Technical data

Impedance	nom. 120 Ω
Operating capacitance	<40 pF/m
Rated voltage	300 V
Test voltage	3000 V
Temperature range	
moving	-20 °C to +80 °C
fixed	-40 °C to +75 °C
Minimum bending radius	
moving	D × 10
fixed	D × 5
Burning behavior	Flame-retardant according to VDE 0482 part 265-2; IEC 60332-1; UL 1581 section VW-1 Flame-Test; CSA FT 1
Halogen free	according to EN 50267-2-1, EN 60684-2
Approvals	cULus CMX

Construction
- Tinned copper wire
- Special polyolefin (BUS element)
- BUS element statically shielded
- Total shield: Braid from galvanised Cu wire, optical coverage ≥ 85 %
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color violet RAL 4001

Part-No.	Number of strands/cross-section/ strand colors	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
DeviceNet™ Thick UL/CMX				
104279	((2×AWG18)+(2×AWG16)) white/blue, red/black	11.3	18.0	2.1
DeviceNet™ Thin UL/CMX				
104289	((2×AWG24)+(2×AWG22)) white/blue, red/black	7.3	8.5	2.8

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

LÜTZE ELECTRONIC ETHERNET (C) PVC

Application
- For the cabling of industrial field bus systems with the globally accepted TCP/IP protocol
- For fixed installation or mobile use without continuous flexing in automation technology, transport, conveyor technology and machine tools

Properties
- High active and passive interference resistance (EMC)
- Silicone free
- RoHS-compliant

Technical data

Rated voltage	300 V
Test voltage	1500 V
Impedance	nom. 100 Ω
Loop resistance	
Wire AWG 22/1= 0.34^2	<110 Ω/km
Wire AWG 24/7= 0.22^2	<165 Ω/km
Wire AWG 26/7=0.14^2	<273 Ω/km
Operating capacitance	<50 pF/m
Temperature range	
moving	-5 °C to +70 °C
run	-30 °C to +80 °C
Minimum bending radius	
moving	D × 12
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2; IEC 60332-1 UL 1581 section VW-1 Flame-Test, CSA FT 4
Approvals	cULus CMG cULus PLTC cURus AWM

Construction
- Bare copper wire
- Wire according to AWG
- Conductor insulation Special polyolefin
- ST static shield
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket PVC, matte, adhesion-free surface
- Jacket color green RAL 6018

Part-No.	Number of strands/cross-section/ strand colors	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
ELECTRONIC Industrial Ethernet/Profinet/EtherCat				
104301	(2x2×AWG22/1)StC CMG, PLTC, AWM 20201 600 V Cat5 100 MHz, SF/UTQ Star quad, FC, ProfiNet type A Transmission pair white/blue, yellow/ orange	6.5	6.5	3.7
104307	(2x2xAWG22/7)StC CMG, PLTC, AWM 20201 600 V Cat5 100 MHz, SF/UTQ Star quad, FC, ProfiNet type B Transmission pair white/blue, yellow/ orange	6.5	6.5	3.1
104397	(4×(2×AWG22/1)St)C CMG, PLTC, AWM 2570 600 V Cat6a 600 MHz, S/FTP whiteblue/blue, whiteorange/orange, whitegreen/green, whitebrown/brown	9.6	9.6	5.3
ELECTRONIC Industrial Ethernet/Ethernet IP				
104335	(4x2xAWG26/7 StC) CMG Cat5e 100 MHZ, SF/UTP whiteblue/blue, whiteorange/orange, whitegreen/green, whitebrown/brown	6.3	5.5	3.0
104336	(4x2xAWG24/7 StC) CMG Cat5e 100 MHZ, SF/UTP whiteblue/blue, whiteorange/orange, whitegreen/green, whitebrown/brown	7.3	6.9	3.8
104338	(4x(2xAWG26/7)St)C CMG Cat6a 500 MHZ, S/FTP whiteblue/blue, whiteorange/orange, whitegreen/green, whitebrown/brown	6.4	5.3	3.3
104331	(4x(2xAWG26/7)St)C CMG Cat7 600 MHZ, S/FTP whiteblue/blue, whiteorange/orange, whitegreen/green, whitebrown/brown	7.0	6.2	3.3

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

LÜTZE SUPERFLEX® ETHERNET (C) PUR
For highest requirements

Application
- For the cabling of industrial field bus systems with the globally accepted TCP/IP protocol
- For fixed installation or mobile use without continuous flexing in automation technology, transport, conveyor technology and machine tools

Properties
- High active and passive interference resistance (EMC)
- Silicone free
- Halogen free
- RoHS-compliant

Technical data

Rated voltage	250 V
Test voltage	1500 V
Impedance	nom. 100 Ω
Loop resistance	
AWG 22/7= 0.34²	<110 Ω/km
AWG 22/19= 0.34²	<110 Ω/km
AWG 24/19= 0.24²	<159,5 Ω/km
AWG 26/19= 0.14²	<280 Ω/km
Operating capacitance	<50 pF/m
Temperature range	
moving	-30 °C to +70 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 12
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2; IEC 60332-1, UL 1581 section VW-1 Flame-Test, CSA FT 1
Halogen free	according to EN 50267-2-1
Approvals	cULus CMX cURus AWM

Part-No.	Number of strands/cross-section/ strand colors	Outer Ø ca. mm	Weight kg/100 m	Cu-index kg/100 m
SUPERFLEX Industrial Ethernet/ProfiNet/Ethercat				
104302	(2×2×AWG22/19)StC CMX Cat5 100 MHZ, SF/UTQ Star quad Transmission pair white/blue, yellow/ orange	6.6	7.5	3.7
104303	(2×2×AWG22/7)StC CMX Cat5 100 MHZ, SF/UTQ Star quad, Profinet type C Transmission pair white/blue, yellow/ orange	6.5	6.1	3.1
SUPERFLEX Industrial Ethernet/Ethernet IP				
104379	(2×2×AWG26/19) AWM 21198 Cat5e 100 MHz, SF/UTQ white, blue, yellow, orange	5.3	3.5	1.8
104337	(4×2×AWG24/19) AWM 21198 Cat5e 100 MHz, S/UTP whiteblue/blue, whiteorange/orange, whitegreen/green, whitebrown/brown	7.8	6.8	5.5
104396	(4×2×AWG26/19) AWM 21198 Cat5e 100 MHz, SF/UTP whiteblue/blue, whiteorange/orange, whitegreen/green, whitebrown/brown	6.7	5.4	2.8
104347	(4×2×AWG26/19) CMX Cat6 350 MHZ, SF/UTP whiteblue/blue, whiteorange/orange, whitegreen/green, whitebrown/brown	7.9	6.3	4.2

Construction
- Bare copper wire
- Wire according to AWG
- Conductor insulation Special polyolefin
- ST static shield
- Halogen-free sub jacket
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color green RAL 6018

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

LÜTZE SUPERFLEX® PLUS M PUR 0.6/1 kV
Motor/energy supply cable
For highest requirements

Application
- Motor connection cable, specifically for machine and device construction, transport and conveyor technology
- Due tofull PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments, machines and plants

Properties
- Very good alternating bending strength
- 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 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 approval	AWM 21223
Nominal voltage	1000 V 80 °C
Voltage	
U_0/U	0.6/1 kV
Test voltage	4000 V
Insulation resistance	min. 500 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 7.5
fixed	D × 4
Burning behavior	Flame-retardant according to VDE 0482 part 265-2, DIN EN 50265-2, IEC 60332-1 UL 1581 section 1080 VW-1, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special TPE/HGI, UL certified
- Conductors black with white print according to DIN EN 50334
- Ground conductor green/yellow according to DIN EN 50334
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color black RAL 9005

Part-No.	Number of conductors/cross-section	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
111370	4G1.5	8.2	10.5	5.8
111371	4G2.5	10.0	15.2	9.7
111372	4G4	11.6	22.2	15.5
111545	5G4	13.0	26.8	19.4
111373	4G6	13.6	33.8	23.3
111430	5G6	14.4	37.8	29.2
111374	4G10	16.8	55.5	39.1
111429	5G10	18.8	69.5	48.8
111375	4G16	20.4	78.8	62.2
111548	5G16	24.2	112.6	77.5
111376	4G25	24.2	120.8	96.0
111377	4G35	30.5	172.5	136.5
111378	4G50	36.5	265.1	200.1

CE These products are in conformity to the EC Low Voltage Directive73/23/EWG or 93/68/EWG respectively

LÜTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Supply line for Siemens and other systems
For highest requirements

Application
- Connection cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology
- Due to optimized cable construction optimally suited for continuous flexing applications in C-tracks
- Very good resitance against aggressive coolants and lubricants
- Especially for industrial environments in mechanical and system engineering

Properties
- High active and passive interference resistance (EMC)
- Braided shield optimised for continuous flexible use
- Very good alternating bending strength
- 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 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 approval	AWM 21223
Nominal voltage	1000 V 80 °C
Voltage U_0/U	0.6/1 kV
Test voltage	4000 V
Insulation resistance	min. 500 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 10
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2, IEC 60332-1, UL 1581 section 1080 VW-1, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special TPE, high glide
- Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L-
- Ground conductor green/yellow according to DIN EN 50334 G = with green/yellow ground conductor, × = without ground conductor
- Control pair color-coded (bk, wh)
- Control pair with braided shield and foil tape
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color orange RAL 2003

Part-No.	Number of conductors/cross-section	SIEMENS designation	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
Construction without signal strands					
111879	(4G1.0)	---------*	7.4	10.8	6.5
111460	(4G1.5)	1BB11*	8.6	11.7	8.3
111461	(4G2.5)	1BB21*	10.8	17.3	13.0
111462	(4G4)	1BB31*	12.2	24.5	19.3
111463	(4G6)	1BB41*	14.0	36.5	27.5
111464	(4G10)	1BB51*	17.6	54.9	45.0
111465	(4G16)	1BB61*	21.2	84.9	72.0
111466	(4G25)	1BB25*	25.0	129.9	108.0
111467	(4G35)	1BB35*	28.8	169.2	152.4
111468	(4G50)	1BB50*	33.9	244.2	216.8
Assembly with 1 signal pair					
111420	(4G1.5+(2×1.5))	1BA11*	11.4	21.0	14.9
111421	(4G2.5+(2×1.5))	1BA21*	12.9	23.5	19.3
111422	(4G4+(2×1.5))	1BA31*	14.5	32.0	25.5
111423	(4G6+(2×1.5))	1BA41*	16.1	43.0	33.9
111424	(4G10+(2×1.5))	1BA51*	19.5	68.0	52.6
111425	(4G16+(2×1.5))	1BA61*	23.6	95.6	77.3
111426	(4G25+(2×1.5))	1BA25*	28.5	136.5	113.0
111427	(4G35+(2×1.5))	1BA35*	31.0	274.6	159.0
111428	(4G50+(2×1.5))	1BA50*	34.5	373.7	224.0

CE These products are in conformity with the EU Low Voltage Directive 2006/95/EC
*Siemens article designations are registered trademarks of Siemens AG
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LÜTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Supply line for Bosch Rexroth and other systems
For highest requirements

Application
- For Indramat* system (and similar)
- Connection cable motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology
- Due to Full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments in mechanical and system engineering

Properties
- High active and passive interference resistance (EMC)
- Braided shield optimised for continuous flexible use
- Very good alternating bending strength
- 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 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 approval	AWM 21223
Nominal voltage	1000 V 80 °C
Voltage U_0/U	0.6/1 kV
Test voltage	4000 V
Insulation resistance	min. 500 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 10
fixed	D × 6
Burning behavior	Flame-retardant according to IEC 60332-1-2, EN 50265-1-2, UL 1581, CSA C22.2 No. 210.2 Flame Rating FT1
Halogen free	according IEC 60754-1, EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special TPE, high glide
- Power conductors black with number print (1, 2, 3)
- Ground conductor green/yellow according to DIN EN 50334 G = with green/yellow ground conductor, × = without ground conductor
- Control pairs digits printing (5, 6) (7, 8)
- Control pair with braided shield and foil tape
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Braid from tinned copper wire, optical coverage > 85 %
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color orange RAL 2003

Part-No.	Number of conductors/cross-section	INK* Description	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
Construction with two control pairs					
111719	(4G0,75+2×(2×0,34))	----------	11.2	17.7	9.5
111270	(4G1.0+2×(2×0.75))	INK 0653	12.5	23.2	13.8
111271	(4G1.5+2×(2×0.75))	INK 0650	12.9	25.5	16.2
111279	(4G2.5+2×(2×1.0))	INK 0602	14.2	33.0	22.6
111388	(4G4+(2×1.0)+(2×1.5))	INK 0603	16.3	38.0	32.9
111998	(4G6+(2×1.0)+(2×1.5))	INK 0604	18.4	53.0	38.5
111762	(4G10+(2×1.0)+(2×1.5))	INK 0605	22.3	76.5	57.0
111276	(4G16+2×(2×1.5))	INK 0606	26.8	106.4	89.1
111277	(4G25+2×(2×1.5))	INK 0607	29.3	171.4	126.0
111278	(4G35+2×(2×1.5))	INK 0667	32.5	217.6	164.0

CE These products are in conformity with the EU Low Voltage Directive 2006/95/EC
*Indramat article designations are registered trademarks

LÜTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Supply line for Lenze and other systems
For highest requirements

Application
- Connection cable motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology
- Due to Full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments in mechanical and system engineering

Properties
- High active and passive interference resistance (EMC)
- Braided shield optimised for flexible use
- Very good alternating bending strength
- 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 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 approval	AWM 21223
Nominal voltage	1000 V 80 °C
Voltage U_0/U	0.6/1 kV
Test voltage	4000 V
Insulation resistance	min. 500 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 10
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2, IEC 60332-1, UL 1581 section 1080 VW-1, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special TPE, high glide
- Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L-
- Ground conductor green/yellow according to DIN EN 50334 G = with green/yellow ground conductor, × = without ground conductor
- Control pair (black, white)
- Control pair with braided shield and foil tape
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special PUR, matte, adhesion-free surface
- Jacket color orange RAL 2003

Part-No.	Number of conductors/cross-section	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
For Lenze system (and similar)				
111439	(4G1.0 + (2×0.5))	10.2	15.5	8.1
111536	(4G1.5+(2×0.5))	11.0	19.2	10.6
111997	(4G2.5+(2×0.5))	12.8	27.1	15.3
111763	(4G4+(2×1.0))	14.8	37.3	23.5
111764	(4G6+(2×1.0))	16.9	47.7	31.6
111765	(4G10+(2×1.0))	20.3	71.0	51.3

CE These products are in conformity to the EC Low Voltage Directive73/23/EWG or 93/68/EWG respectively

LÜTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV
Supply line for SEW and other systems
For highest standards

Application
- Connection cable motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology
- Due to Full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments in mechanical and system engineering

Properties
- High active and passive interference resistance (EMC)
- Braided shield optimised for continuous flexible use
- Very good alternating bending strength
- 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 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 approval	AWM 21223
Nominal voltage	1000 V 80 °C
Voltage U_0/U	0.6/1 kV
Test voltage	4000 V
Insulation resistance	min. 1000 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 10
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2, IEC 60332-1, UL 1581 section 1080 VW-1, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special TPE, high glide
- Power conductors black with numbered print U/L1/C/L+, V/L2, W/L3/D/L-
- Ground conductor green/yellow according to DIN EN 50334 G = with green/yellow ground conductor, × = without ground conductor
- Three elements: number printing (1, 2, 3)
- Three elements with control pair with braided shield and foil tape
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special-PUR
- Jacket color orange RAL 2003

Part-No.	Number of conductors/cross-section	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
For SEW system (and similar), with inner jacket and three elements				
111560	(4G1.5+(3×1.0))	11.8	24.4	13.9
111561	(4G2.5+(3×1.0))	13.7	30.6	18.3
111562	(4G4+(3×1.0))	14.7	39.6	25.6
111563	(4G6+(3×1.5))	17.0	52.9	34.4
111564	(4G10+(3×1.5))	20.5	73.0	52.2

CE These products are in conformity to the EC Low Voltage Directive73/23/EWG or 93/68/EWG respectively

LÜTZE SUPERFLEX® PLUS M (C) PUR HYBRID SERVO 0,6/1 kV
combined power supply cable for servo motors with Hiperface DSL® interface
For the highest of standards

Application
- Combined power supply cable with motor supply, brake and digital feedback especially for SERVO drives in machine and plant construction, transport and conveyor technology
- Due to Full PUR jacket and TPE / HGI conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments in mechanical and system engineering

Properties
- High active and passive interference resistance (EMC)
- Braided shield optimised for continuous flexible use
- Very good alternating bending strength
- 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 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 approval	AWM 21223
Nominal voltage	1000 V 80 °C
Voltage U_0/U	0.6/1 kV
Test voltage	3000 V
Insulation resistance	min. 500 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 7.5
fixed	D × 5
Burning behavior	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2, IEC 60332-1, UL 1581 section 1080 VW-1, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire im compliance with IEC 60228 Cl. 6 in Bare copper wire im compliance with IEC 60228 Cl. 6 in Bare copper wire im compliance with IEC 60228 Cl. 6
- Conductor insulation Special polyolefin mix
- Power conductors black with number print U/L1/C/L+, V/L2, W/L3/D/L-
- Ground conductor green/yellow according to DIN EN 50334 G = with green/yellow ground conductor, × = without ground conductor
- Control pair color-coded (bw, wb), BUS element color-coded (bw, wb)
- Control pair and BUS element each with braided shield and foil tape
- Strands for the power supply, element brake and element BUS braided together
- Fleece wrap over cable core
- Braid from tinned copper wire, optical coverage ≥ 85 %
- PUR halogen free jacket
- Jacket color orange RAL 2003

Part-No.	Number of conductors/cross-section	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
111598	(4G0.75+(2×0.34)+(2×AWG22))	11.8	21.1	13.3
111599	(4G1,0+(2×0,75)+(2×AWG22))	11.4	19.0	11.2
111600	(4G1,5+(2×0,75)+(2×AWG22))	13.2	25.2	16.0
111601	(4G2,5+(2×1,0)+(2×AWG22))	14.0	31.4	21.5
111602	(4G4+(2×1.0)+(2×AWG22))	15.8	40.8	28.8
111603	(4G6+(2×1.0)+(2×AWG22))	17.8	51.2	37.2
111604	(4G10+(2×1.5)+(2×AWG22))	21.0	77.9	57.3
111605	(4G16+(2×1.5)+(2×AWG22))	26.0	119.8	87.0

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

LÜTZE SUPERFLEX® PLUS PUR 0.6/1 kV
Motor/energy supply cable
For highest requirements

Application
- Performance conductor, specifically for machine and device engineering, transport and conveyor technology
- As motor supply or grounding cable
- Due to full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments, machines and plants

Properties
- Halogen-free, no corrosive gases
- Very good alternating bending strength
- 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 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 approval	AWM 21223 AWM 10587
Nominal voltage	1000 V 80 °C
Test voltage	4000 V
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 7.5
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2, IEC 60332-1 UL 1581 section 1080 VW-1 CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special TPE, high glide
- Braid shield (optional) from galvanised Cu wire, optical coverage ≥ 85 %.
- Full polyurethane jacket, matte, adhesion-free surface
- Jacket color Black RAL 9005, GreenYellow available on request

Part-No.	Number of strands/cross-section/ strand colors	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
Without shield, black				
111136	1×6	7.1	9.0	5.6
111126	1×10	8.4	13.8	9.3
111127	1×16	9.8	20.5	14.8
111128	1×25	11.4	30.6	23.3
111129	1×35	13.4	43.1	32.6
111130	1×50	15.2	57.2	47.8
111131	1×70	16.6	78.3	64.5
111132	1×95	19.2	104.3	88.8
111133	1×120	22.2	130.2	120.0
Without screen, insulation and jacket greenyellow				
111241	1G6	7.1	9.0	5.6
111243	1G10	8.4	13.8	9.3
111197	1G16	9.8	20.5	14.8
111337	1G25	11.4	30.6	23.3
111285	1G35	13.4	43.1	32.6

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

LÜTZE SUPERFLEX® PLUS (C) PUR 0.6/1 kV
Motor/energy supply cable, for highest requirements

Application
- Performance conductor, specifically for machine and device engineering, transport and conveyor technology
- As motor supply or grounding cable
- Due to full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments, machines and plants

Properties
- Halogen-free, no corrosive gases
- Very good alternating bending strength
- 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 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 approval	AWM 21223 AWM 10587
Nominal voltage	1000 V 80 °C
Test voltage	4000 V
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 7.5
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2, IEC 60332-1 UL 1581 section 1080 VW-1 CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special TPE, high glide
- Braid shield (optional) from galvanised Cu wire , optical coverage ≥ 85 %.
- Full polyurethane jacket, matte, adhesion-free surface
- Jacket color Black RAL 9005, GreenYellow available on request

Part-No.	Number of strands/cross-section/ strand colors	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
With CU shield, black				
111288	(1×6)	7.7	11.5	7.7
111289	(1×10)	9.0	17.1	12.1
111290	(1×16)	10.4	24.1	18.1
111291	(1×25)	12.0	35.3	27.3
111292	(1×35)	14.0	48.1	37.3
111293	(1×50)	15.8	63.1	53.1
111294	(1×70)	17.4	85.3	70.6
111295	(1×95)	20.2	114.6	98.0
111296	(1×120)	23.4	143.1	132.0

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

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK
Encoder cables for Siemens and other systems
For highest requirements in drive technology

Application
- Incremental encoder cable, connection cable for tacho sensor, brake sensor, speed sensor
- Due toFull PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments in mechanical and system engineering

Properties
- High active and passive interference resistance (EMC)
- Braided shield optimised for continuous flexible use
- Very good alternating bending strength
- 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 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 approval	AWM 20236
Nominal voltage	30 V 80 °C
Test voltage	500 V
Insulation resistance	min. 200 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 12
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2, IEC 60332-1, UL 1581 section 1080 VW-1, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special-TPE
- Conductors color-coded for specific system
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Full polyurethane jacket, matte, adhesion-free surface
- Jacket color green RAL 6018

Part-No.	Number of strands/cross-section/ strand colors	SIEMENS designation	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
For Siemens 6FX8000* standard system (and similar)					
111412	(8×2×0.18) black/brown, red/orange, yellow/green, blue/violet, grey/white, whiteblack/whitebrown, whitered/whiteorange, whitegreen/whiteyellow	1BD11*	8.1	13.1	7.3
111456	(4×0.5+4×2×0.38) 0.5: whiteblue, whiteblack, whitered, whiteyellow 0.38: black/brown, red/orange, green/yellow, blue/violet	1BD21*	9.2	13.2	8.6
111459	(2×(0.5)+3×(2×0.14)) 0.5: black, red 0.14: black/brown, red/orange, green/yellow	1BD31*	8.7	12.8	6.9
111458	(2×0.5+3×(2×0.14)+4×0.14) 0.5: brownblue, brownred (0.14) black/brown, red/orange, green/yellow 0.14: blue, grey, whiteblack, whiteyellow	1BD41*	9.0	12.2	6.1
111457	(2×0.5+3×(2×0.14)+4×0.23+4×0.14) 0.5: brownblue, brownred 0.23: greenblack, greenred, brownyellow, browngrey (0.14) black/brown, red/orange, yellow/green 0.14: blue, grey, whiteblack, whiteyellow	1BD51*	9.6	15.3	9.3
111453	(4×2×0.18) black/brown, red/orange, green/yellow, blue/violet	1BD61*	6.4	7.6	3.2
111452	(2×2×0.18) Star quad, black, red, orange, brown	1BD71*	5.0	4.2	2.2
111454	(12×0.23) black, brown, red, orange, green, yellow, blue, violet, grey, white, whiteblack, whitebrown	1BD81*	6.7	8.5	4.7
For Siemens-System Drive Cliq standard system (and similar)					
104310	(2×2×0.15+1×2×0.34) 0.34: red/black 0.15: pink/blue, yellow/green	2DC00*	6.8	7.3	3.4

CE These products are in conformity to the EC Low Voltage Directive 73/23/EWG or 93/68/EWG respectively
*Siemens and DRIVE CliQ are registered trademarks

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK
Feedback cables for Bosch-Rexroth and other systems
For highest requirements in drive technology

Application
- Incremental encoder cable, connection cable for tacho sensor, brake sensor, speed sensor
- Due to Full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments in mechanical and system engineering

Properties
- High active and passive interference resistance (EMC)
- Braided shield optimised for continuous flexible use
- Very good alternating bending strength
- 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 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 approval	AWM 20233
Nominal voltage	300 V 80 °C
Test voltage	2000 V
Insulation resistance	min. 200 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 12
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2, IEC 60332-1, UL 1581 section 1080 VW-1, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special-TPE
- Conductors color-coded for specific system
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color orange RAL 2003

Part-No.	Number of strands/cross-section/ strand colors	INK* Description	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
For Bosch-Rexroth system (and similar)					
110941	(2×1.0+4×2×0.25) 1.0: white, brown 0.25: brown/green, grey/pink, blue/violet, red/black	INK-0209*	8.9	12.0	6.4
111780	(2×0.5+4×2×0.25) 0.5: white, brown 0.25: brown/green, grey/pink, blue/violet, red/black	INK-0448*	8.7	10.0	5.9
110940	(9×0.5) Strand color according to DIN 47100	INK-0208*	8.8	12.5	7.5
111495	(4×1.0+4×2×0.14+(4x0.14)) 1.0: blue, whitegreen, browngreen, white 0.14: grey/pink, yellow/violet, green/brown, red/black (0.14): greenblack, blueblack, yellowblack, redblack	INK-0532*	9.5	13.7	9.6
111781	(2×2×0.25+2×0.5) 0.5: white, brown 0.25: red/black, gray, pink	INK-0750*	7.6	9.0	4.2

CE These products are in conformity with the EU Low Voltage Directive 2006/95/EC
*Indramat article designations are registered trademarks

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK
Feedback cables for Lenze and other systems
For highest requirements in drive technology

Application
- Incremental encoder cable, connection cable for tacho sensor, brake sensor, speed sensor
- Due toFull PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments in mechanical and system engineering

Properties
- High active and passive interference resistance (EMC)
- Braided shield optimised for continuous flexible use
- Very good alternating bending strength
- 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 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 approval	AWM 20233
Nominal voltage	300 V 80 °C
Test voltage	2000 V
Insulation resistance	min. 200 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 12
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2, IEC 60332-1, UL 1581 section 1080 VW-1, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special-TPE
- Conductors color-coded for specific system
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color green RAL 6018

Part-No.	Number of strands/cross-section/ strand colors	LENZE description*	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
For Lenze system (and similar)					
111769	3×(2×0.14)+(2×0.5) (0.5): white/brown (0.14): green/yellow, blue/red, grey/pink	EWLR	9.3	10.7	4.4
111771	4×(2×0.14)+2×(1.0) (1.0): brown/white (0.14): green/yellow, blue/red, green/pink, black/violet	EWLE	11.2	14.5	6.5

CE These products are in conformity to the EC Low Voltage Directive 73/23/EWG or 93/68/EWG respectively
*Lenze article designations are registered trademarks

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK
Feedback cables for SEW and other systems
For highest requirements in drive technology

Application
- Incremental encoder cable, connection cable for tacho sensor, brake sensor, speed sensor
- Due to Full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments in mechanical and system engineering

Properties
- High active and passive interference resistance (EMC)
- Braided shield optimised for continuous flexible use
- Very good alternating bending strength
- 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 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 approval	AWM 20233
Nominal voltage	300 V 80 °C
Test voltage	2000 V
Insulation resistance	min. 200 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-50 °C to +80 °C
Minimum bending radius	
moving	D × 12
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2, IEC 60332-1, UL 1581 section 1080 VW-1, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special-TPE
- Conductors color-coded for specific system
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color green RAL 6018

Part-No.	Number of strands/cross-section/ strand colors	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
For SEW system (and similar)				
111772	(5×2×0.25) white/brown, green/yellow, grey/pink, blue/red, black/violet	8.8	9.0	4.9
111773	(6×2×0.25) white/brown, green/yellow, grey/pink, blue/red, black/violet, greypink/redblue	9.4	10.5	5.9

CE These products are in conformity to the EC Low Voltage Directive73/23/EWG or 93/68/EWG respectively

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK
Feedback cables for Allen-Bradley and other systems
For highest requirements in drive technology

Application
- Incremental encoder cable, connection cable for tacho sensor, brake sensor, speed sensor
- Due to optimized cable construction optimally suited for continuous flexing applications in C-tracks
- Very good resitance against aggressive coolants and lubricants
- Especially for industrial environments in mechanical and system engineering

Properties
- High active and passive interference resistance (EMC)
- Braided shield optimised for continuous flexible use
- Very good alternating bending strength
- 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 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 approval	AWM 21223
Nominal voltage	1000 V 80 °C
Test voltage	2000 V
Insulation resistance	min. 200 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 10
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2, IEC 60332-1, UL 1581 section 1080 VW-1, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special-TPE
- Conductors color-coded for specific system
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color green RAL 6018

Part-No.	Number of strands/cross-section/ strand colors	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
For Allen Bradley system (and similar)				
111489	(2×AWG16+2×AWG22+6×2×AWG26) AWG 16: grey, white/grey AWG 22: orange, white/orange AWG 26: blackwhite/black, redwhite/red, greenwhite/green, bluewhite/blue, brownwhite/brown, greywhite/grey	10.8	18.0	12.0
111488	(5x2xAWG22) blackwhite/black, redwhite/red greenwhite/green, greywhite/grey organgewhite/orange	9.2	10.7	5.4

CE These products are in conformity to the EC Low Voltage Directive73/23/EWG or 93/68/EWG respectively

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK
Feedback cables for Heidenhain and other systems
For highest requirements in drive technology

LÜTZE SUPERFLEX®

Application
- Incremental encoder cable, connection cable for tacho sensor, brake sensor, speed sensor
- Due to Full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments in mechanical and system engineering

Properties
- High active and passive interference resistance (EMC)
- Braided shield optimised for continuous flexible use
- Very good alternating bending strength
- 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 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 approval	AWM 20233
Nominal voltage	300 V 80 °C
Test voltage	2000 V
Insulation resistance	min. 200 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 12
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2, IEC 60332-1, UL 1581 section 1080 VW-1, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special-TPE
- Conductors color-coded for specific system
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color black RAL 9005

Part-No.	Number of strands/cross-section/ strand colors	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
For Heidenhain system (and similar)				
111774	(2×(0.5)+3×(2×0.14)) (0.5): white, brown (0.14): green/yellow, grey/pink, blue/red	8.5	10.0	6.2
111776	(2×(1.0)+3×(2×0.14)) (1.0): white, brown (0.14): green/yellow, grey/pink, blue/red	9.1	11.5	6.5
111418	(4×0.5+4×2×0.14+(4×0.14)) 0.5: white, blue, browngreen, whitegreen 0.14: yellow/violet, grey/pink, brown/green, red/black (0.14): greenblack, blueblack, yellowblack, redblack	8.7	12.3	6.0
111777	(4×0.5+4×2×0.14) 0.5: white, blue, browngreen, whitegreen 0.14: yellow/violet, grey/pink, brown/green, red/black	8.6	9.2	4.8

CE These products are in conformity to the EC Low Voltage Directive73/23/EWG or 93/68/EWG respectively

LÜTZE SUPERFLEX® PLUS (C) PUR FEEDBACK
Feedback cables for various systems
For highest requirements in drive technology

Application
- Incremental encoder cable, connection cable for tacho sensor, brake sensor, speed sensor
- Due to Full PUR jacket and TPE conductor insulation optimally suited for c-tracks, extremely rough operating conditions and aggressive coolants and lubricants
- Especially for industrial environments in mechanical and system engineering

Properties
- High active and passive interference resistance (EMC)
- Braided shield optimised for continuous flexible use
- Very good alternating bending strength
- 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 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 approval	AWM 20233
Nominal voltage	300 V 80 °C
Test voltage	2000 V
Insulation resistance	min. 200 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 12
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 part 265-2 DIN EN 50265-2, IEC 60332-1, UL 1581 section 1080 VW-1, CSA FT 1
Halogen free	according to EN 50267-2-1

Construction
- Bare or tin-plated copper wire (vz), super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Special-TPE
- Conductors color-coded for specific system
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color green RAL 6018

Part-No.	Number of strands/cross-section/ strand colors	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
For System Fanuc (with drain wire)				
111490	(5×0.5+1×2×0.18)vz 0.5: green, yellow, grey, pink, blue 0.18: white/brown	7.5	8.1	4.9
111491	(5×0.5+2×2×0.18)vz 0.5: green, yellow, grey, pink, blue 0.18: white/brown, black/violet	7.8	9.3	6.3
111492	(6×0.5+3×2×0.18)vz 0.5: black 1-3, red 4-6 0.18: black/red, white/red, black/white	8.7	9.8	6.3
For NUM system				
111416	4×(2×AWG22) black/withe, black/green, black/blue, black/red	10.3	11.0	6.6
111417	(4x(2x0,22)+2x(2x0,5)) (0.5): black/orange, black/green (AWG24): black/white, black/pink, black/blue, black/red	12.5	18.0	11.9
For Berger Lahr system				
111479	(1×2×0.5+5×2×0.25) 0,5: blue, red 0.25: white/brown, green/yellow, grey/pink, black/violet, greypink/redblue	8.7	14.0	5.8
For B+R system				
111437	(3×2×AWG24/19) white/brown, green/yellow, grey/pink	6.6	6.9	2.7
111438	(2×0.5+5×2×0.14) 0,5: blue, red 0.14: white/brown, green/yellow, grey/pink, black/violet, greypink/redblue	7.8	12.5	5.0
Individual pair shields for various resolver systems				
111778	(3×(2×0.25)) DIN 47100 TP	9.6	13.6	6.9
111779	(4×(2×0.25)) DIN 47100 TP	10.2	18.1	9.5

CE These products are in conformity to the EC Low Voltage Directive73/23/EWG or 93/68/EWG respectively

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

Application
- Robots, drag chains 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 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 approval	AWM 20549
Nominal voltage	300 V 80 °C
Test voltage	3000 V
Insulation resistance	min. 1000 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 10
fixed	D × 4
Burning behavior	Flame-retardant according to DIN EN 60332-2-2, UL Horizontal Flame Test
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special TPE, high glide
- Conductors color-coded according to DIN 47100
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
AWG 26 / 0,14 mm²				
117030	2×0.14	3.6	1.4	0.3
117031	3×0.14	3.7	1.6	0.4
117032	4×0.14	4.1	1.9	0.6
117033	5×0.14	4.4	2.2	0.7
117034	7×0.14	5.0	2.9	1.0
117035	10×0.14	5.7	3.7	1.4
117036	12×0.14	5.9	4.1	1.7
117027	15×0.14	6.5	4.9	2.2
117037	18×0.14	6.8	5.7	2.7
117038	25×0.14	8.1	7.9	3.6
AWG 24 / 0,25 mm²				
117039	2×0.25	3.8	1.8	0.5
117040	3×0.25	4.0	2.1	0.8
117041	4×0.25	4.4	2.5	1.0
117042	5×0.25	4.7	2.9	1.3
117043	7×0.25	5.4	3.8	1.8
117044	10×0.25	6.3	5.0	2.5
117045	12×0.25	6.4	5.6	3.0
117028	15×0.25	7.1	6.5	3.5
117046	18×0.25	7.4	7.9	4.5
117047	25×0.25	8.8	10.8	6.3
AWG 22 / 0,34 mm²				
117048	2×0.34	4.1	2.1	0.7
117049	3×0.34	4.3	2.4	1.0
117050	4×0.34	4.6	2.9	1.3
117051	5×0.34	5.0	3.4	1.7
117052	7×0.34	5.7	4.5	2.4
117053	10×0.34	6.7	5.9	3.4
117054	12×0.34	6.9	6.8	4.0
117029	15×0.34	7.6	8.4	5.0
117055	18×0.34	7.9	9.6	6.1
117056	25×0.34	9.5	13.2	8.4

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

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

Application
- Robots, drag chains 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 approval	AWM 20549
Nominal voltage	300 V 80 °C
Test voltage	3000 V
Insulation resistance	min. 1000 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 12
fixed	D × 6
Burning behavior	Flame-retardant according to DIN EN 60332-2-2, UL Horizontal Flame Test
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special-TPE
- Conductors color-coded according to DIN 47100
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
0.14 mm²				
117090	(2×0.14)	4.0	2.0	1.0
117091	(3×0.14)	4.2	2.3	1.2
117092	(4×0.14)	4.5	2.6	1.4
117093	(5×0.14)	4.8	3.0	1.7
117094	(7×0.14)	5.5	3.9	2.1
117095	(10×0.14)	6.2	4.8	2.8
117096	(12×0.14)	6.3	5.3	3.1
117097	(18×0.14)	7.2	7.1	4.2
117098	(25×0.14)	8.5	9.4	5.6
0.25 mm²				
117099	(2×0.25)	4.3	2.4	1.3
117100	(3×0.25)	4.5	2.8	1.6
117101	(4×0.25)	4.8	3.3	1.9
117102	(5×0.25)	5.1	3.7	2.3
117103	(7×0.25)	5.8	4.8	3.0
117104	(10×0.25)	6.7	6.1	4.0
117105	(12×0.25)	6.8	6.8	5.3
117106	(18×0.25)	7.8	9.4	6.3
117107	(25×0.25)	9.4	13.2	9.5
0.34 mm²				
117108	(2×0.34)	4.5	2.6	1.5
117109	(3×0.34)	4.7	2.1	1.9
117110	(4×0.34)	5.0	3.7	2.3
117111	(5×0.34)	5.4	4.3	2.8
117112	(7×0.34)	6.2	5.7	3.7
117113	(10×0.34)	7.1	7.2	5.0
117114	(12×0.34)	7.3	8.0	5.6
117115	(18×0.34)	8.4	11.2	8.0
117116	(25×0.34)	10.0	15.8	11.5

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

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

Application
- Robots, drag chains 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

UL approval	AWM 20233
Nominal voltage	300 V 80 °C
Test voltage	3000 V
Insulation resistance	min. 1000 MΩ × km
Temperature range	
moving	-25 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 12
fixed	D × 6
Burning behavior	Flame-retardant according to VDE 0482 Part 265-2 DIN EN 50265-2, IEC 60332-1, UL 1581 Cable Flame, FT1
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special-TPE
- Conductors color-coded according to DIN 47100
- Zero-potential paired stranding, layer pitch optimised
- Fleece wrap over cable core
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
0.25 mm²				
117170	(2×2×0.25)	6.2	4.4	2.2
117171	(3×2×0.25)	6.5	5.0	2.8
117172	(4×2×0.25)	6.8	5.7	3.4
117173	(5×2×0.25)	7.7	7.3	4.0
117177	(6×2×0.25)	8.1	8.0	4.7
117174	(8×2×0.25)	9.4	11.3	6.0
117175	(10×2×0.25)	10.5	12.4	7.9
117176	(12×2×0.25)	10.8	14.1	9.1
0.34 mm²				
117180	(2×2×0.34)	6.5	4.7	2.6
117181	(3×2×0.34)	6.8	5.8	3.4
117182	(4×2×0.34)	7.4	7.0	4.2
117183	(5×2×0.34)	8.0	8.2	5.1
117184	(6×2×0.34)	8.6	9.6	5.9
117185	(8×2×0.34)	10.0	13.0	8.3
117186	(10×2×0.34)	10.9	14.9	10.0
117187	(12×2×0.34)	11.2	16.8	11.4
0.5 mm²				
117190	(2×2×0.5)	7.1	5.9	3.4
117191	(3×2×0.5)	7.5	7.1	4.5
117303	(4×2×0.5)	8.2	8.8	5.7
117192	(5×2×0.5)	9.0	10.4	6.8
117193	(6×2×0.5)	9.9	13.6	8.0
117194	(8×2×0.5)	11.2	17.0	11.2
117195	(10×2×0.5)	12.2	19.3	13.5
117196	(12×2×0.5)	12.6	22.3	15.6
0.75 mm²				
117189	(2×2×0.75)	8.3	8.3	4.7
117201	(3×2×0.75)	8.8	9.9	6.3
117202	(4×2×0.75)	9.7	12.8	8.2
117203	(5×2×0.75)	10.6	14.6	10.5
117204	(6×2×0.75)	11.5	18.1	12.3
117205	(8×2×0.75)	13.4	23.9	17.6

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

LÜTZE SUPERFLEX® TRONIC AS PUR, unshielded
For highest requirements

LÜTZE SUPERFLEX®

halogen free · c UL us · CE · RoHS

Application
- Connecting cable for the actuator-sensor technology
- For continuous flexible 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, nick-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 approval	AWM 20549
Nominal voltage	300 V 80 °C
Test voltage	3000 V
Insulation resistance	min. 100 MΩ × km
Temperature range	
moving	-20 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 8
fixed	D × 4
Burning behavior	Flame retardant according to DIN EN 60332-2-2, UL Horizontal Flame-Test, CSA FT 2
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special-TPE
- Conductors color-coded based on EN 60947-5-2
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color black RAL 9005

Part-No.	Number of strands/cross-section/ strand colors	Outer Ø ca. mm	Weight kg/100 m	Cu-Index kg/100 m
0.25 mm²				
117240	3×0.25 brown, blue, black	4.0	1.9	0.8
117241	4×0.25 white, brown, blue, black	4.3	2.3	1.0
117242	8×0.25 white, brown, green, yellow, grey, pink, blue, red	5.9	4.1	2.1
0.34 mm²				
117243	3×0.34 brown, blue, black	4.2	2.2	1.0
117244	4×0.34 white, brown, blue, black	4.5	2.7	1.3
117245	5×0.34 brown, white, blue, black, grey	4.9	3.2	1.7
117246	5×0.34 brown, white, blue, black, greenyellow	4.9	3.2	1.7
Actuator-sensor connecting cables				
110872	3G1.0+8×0.34 1.0: brown, blue, greenyellow 0.34: white, black, green, yellow, grey, pink, violet, red	8.2	9.9	5.5
110874	3G1.0+16×0.34 1.0: brown, blue, greenyellow 0.34: white, green, yellow, grey, pink, red, black, violet, greypink, redblue, whitegreen, browngreen, whiteyellow, yellowbrown, whitegrey, greybrown	9.7	13.5	8.1

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

Application
- Connecting cable for the actuator-sensor technology
- For continuous flexible 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 approval	AWM 20549
Nominal voltage	300 V 80 °C
Test voltage	3000 V
Insulation resistance	min. 100 MΩ × km
Temperature range	
moving	-20 °C to +80 °C
fixed	-40 °C to +80 °C
Minimum bending radius	
moving	D × 12
fixed	D × 6
Burning behavior	Flame retardant according to DIN EN 60332-2-2, UL Horizontal Flame-Test, CSA FT 2
Halogen free	according to EN 50267-2-1

Construction
- Bare copper wire, super finely stranded according to DIN VDE 0295 class 6, IEC 60228 class 6
- Conductor insulation Special-TPE
- Conductors color-coded based on EN 60947-5-2
- Conductors cabled in layers without mechanical stress, layer pitch optimised
- Fleece wrap over cable core
- Braid from tinned copper wire, optical coverage ≥ 85 %
- Jacket special-PUR, matte, adhesion-free surface
- Jacket color black RAL 9005

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

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