

PVC control cables · unshielded

LÜTZE SILFLEX® N PVC MULTINORM

With approvals for Europe and North America



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 flexible application without continuous flexing

Properties

- Certified as component cable for use in North America
- Easy stripping and fast installation
- High flexibility for complex installation distances and small bending radii
- Improved oil resistance due to specifically developed PVC jacket
- Resistant to many oils, coolants and solvents
- Hydrolysis and microbe resistant
- Silicone free
- RoHS-compliant

Technical data

UL style	AWM 2587
Rated voltage UL	600 V
Rated voltage U ₀ /U	300/500 V
Test voltage	AC 6000 V
Insulation resistance at 20 °C	≥ 20 MΩ×km
Temperature according to UL	90 °C
Temperature range moving	-5 °C ... +70 °C
Temperature range fixed	-25 °C ... +70 °C
Minimum bending radius moving	10×D
Minimum bending radius fixed	4×D
Burning behavior according to	IEC 60332-1 IEC 60332-3-24 UL FT1 UL VW-1
Oil resistant according to	Oil Res II
Conformity	CE RoHS
Approvals	cURus AWM I/II A/B FT1 VDE

Construction

- Conductor: CU-wire bare
- Conductor category: IEC 60228, Class 5, Finely stranded DIN VDE 0295, Class 5
- Conductor insulation: Special PVC
- Conductor insulation standard: UL 1581
- Conductor marking: black, with white number print
- Ground conductor: green/yellow according to DIN EN 50334 in the top layer
G = with green/yellow ground conductor, × = without ground conductor
- Overall stranding: layered construction
- Jacket material: Special PVC
- Jacket color: grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
0.5 mm²				
109700	S* 2×0.5	5.0	3.8	1.0
109701	S* 3G0.5	5.3	4.6	1.4
109702	S* 4G0.5	5.7	5.5	1.9
109703	S* 5G0.5	6.3	6.8	2.4
109704	S* 7G0.5	6.8	8.7	3.4
109705	S* 7G0.5	8.7	14.8	5.8
109707	S* 18G0.5	10.4	21.3	8.6
109708	S* 25G0.5	12.1	29.4	12.0
0.75 mm²				
109711	S* 2×0.75	5.4	4.7	1.5
109712	S* 3G0.75	5.7	5.7	2.2
109713	S* 4G0.75	6.2	7.0	2.9
109714	S* 5G0.75	6.8	8.9	3.6
109715	S* 7G0.75	7.4	11.2	5.0
109716	S* 12G0.75	9.5	19.5	8.6
109718	S* 18G0.75	11.4	28.2	12.9
109719	S* 25G0.75	13.3	39.1	18.0
1.0 mm²				
109720	S* 2×1.0	5.7	5.5	1.9
109721	S* 3G1.0	6.1	6.9	2.9
109722	S* 4G1.0	6.6	8.5	3.8
109723	S* 5G1.0	7.2	10.6	4.8
109724	S* 7G1.0	7.8	13.4	6.7
109725	S* 12G1.0	10.3	23.5	11.5
109727	S* 18G1.0	12.3	34.6	17.3
109728	S* 25G1.0	14.3	47.0	24.0
109729	S* 34G1.0	16.9	65.3	32.6
1.5 mm²				
109730	S* 2×1.5	6.3	7.2	2.9
109731	S* 3G1.5	6.7	9.4	4.3
109732	S* 4G1.5	7.3	11.6	5.8
109733	S* 5G1.5	8.0	14.6	7.2
109734	S* 7G1.5	8.7	18.5	10.1
109735	S* 12G1.5	11.5	32.3	17.3
109737	S* 18G1.5	13.8	47.6	25.9
109738	S* 25G1.5	16.0	65.3	36.0
2.5 mm²				
109740	S* 3G2.5	8.0	14.6	7.2
109741	S* 4G2.5	8.7	18.1	9.6
109742	S* 5G2.5	9.6	22.7	12.0
109743	S* 7G2.5	10.7	29.7	16.8
109744	S* 12G2.5	14.4	51.5	28.8
4 mm²				
109749	S* 3G4	9.3	21.6	11.5
109750	S* 4G4	10.5	27.4	15.4
109751	S* 5G4	11.5	33.9	19.2
109752	S* 7G4	12.8	44.5	26.9
6 mm²				
109753	S* 4G6	12.4	39.9	23.0
109754	S* 5G6	13.7	49.8	28.8
10 mm²				
109323	S* 4G10	15.9	66.2	38.4

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

PVC control cables · shielded

LÜTZE SILFLEX® N (C) PVC MULTINORM With approvals for Europe and North America



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 flexible application without continuous flexing
- Anywhere where electrical interference fields can influence the signal transmission

Properties

- Certified as component cable for use in North America
- Easy stripping and fast installation
- High flexibility for complex installation distances and small bending radii
- Improved oil resistance due to specifically developed PVC jacket
- Resistant to many oils, coolants and solvents
- Hydrolysis and microbe resistant
- Silicone free
- RoHS-compliant

Technical data

UL style	AWM 2587
Rated voltage UL	600 V
Rated voltage U ₀ /U	300/500 V
Test voltage	AC 6000 V
Insulation resistance at 20 °C	≥ 20 MΩ×km
Temperature according to UL	90 °C
Temperature range moving	-5 °C ... +70 °C
Temperature range fixed	-25 °C ... +70 °C
Minimum bending radius moving	15×D
Minimum bending radius fixed	6×D
Burning behavior according to	IEC 60332-1 IEC 60332-3-24 UL FT1 UL VW-1
Oil resistant according to	Oil Res II
Conformity	CE RoHS
Approvals	cURus AWM I/II A/B FT1 VDE

Construction

- Conductor: CU-wire bare
- Conductor category: IEC 60228, Class 5, Finely stranded DIN VDE 0295, Class 5
- Conductor insulation: Special PVC
- Conductor insulation standard: UL 1581
- Conductor marking: black, with white number print
- Ground conductor: green/yellow according to DIN EN 50334 in the top layer
G = with green/yellow ground conductor, × = without ground conductor
- Overall stranding: layered construction
- Overall wrapping: Fleece taping
- Overall shield: Braid shield, Tinned copper wires, optical cover approx. 85%
- Jacket material: Special PVC
- Jacket color: grey RAL 7001

Part-No.	Number of conductors/cross-section	Outer Ø mm	Weight kg/100 m	Cu-Index kg/100 m
0.5 mm²				
109800	S* (2×0.5)	5.6	4.7	2.2
109801	S* (3G0.5)	5.9	5.4	2.7
109802	S* (4G0.5)	6.3	6.8	3.7
109803	S* (5G0.5)	6.9	8.2	4.2
109804	S* (7G0.5)	7.4	10.1	5.6
109805	S* (12G0.5)	9.3	16.4	8.9
109807	S* (18G0.5)	11.0	22.8	12.2
109808	S* (25G0.5)	12.7	31.0	16.1
0.75 mm²				
109812	S* (3G0.75)	6.3	6.8	3.9
109813	S* (4G0.75)	6.8	8.4	4.6
109814	S* (5G0.75)	7.4	10.2	5.8
109815	S* (7G0.75)	8.0	12.6	7.3
109816	S* (12G0.75)	10.3	19.9	11.8
109818	S* (18G0.75)	12.2	29.1	17.0
109819	S* (25G0.75)	14.3	39.7	24.4
1.0 mm²				
109821	S* (3G1.0)	6.7	8.0	4.6
109822	S* (4G1.0)	7.2	10.0	6.1
109823	S* (5G1.0)	7.8	11.7	7.1
109824	S* (7G1.0)	8.4	15.0	9.4
109825	S* (12G1.0)	10.9	24.2	15.1
109827	S* (18G1.0)	12.9	35.7	21.3
109828	S* (25G1.0)	15.1	47.1	30.4
1.5 mm²				
109831	S* (3G1.5)	7.3	10.3	6.6
109832	S* (4G1.5)	7.9	12.3	8.2
109833	S* (5G1.5)	8.6	15.6	9.9
109834	S* (7G1.5)	9.5	20.0	13.2
109835	S* (12G1.5)	12.3	32.2	21.3
109837	S* (18G1.5)	14.8	48.5	32.3
109838	S* (25G1.5)	17.0	63.0	43.2
2.5 mm²				
109840	S* (3G2.5)	8.6	15.1	9.9
109841	S* (4G2.5)	9.3	19.4	12.7
109842	S* (5G2.5)	10.4	23.0	15.1
109843	S* (7G2.5)	11.3	29.6	20.4
109844	S* (12G2.5)	15.2	50.8	35.2
4 mm²				
109862	S* (4G4)	11.1	27.9	18.9
6 mm²				
109863	S* (4G6)	13.2	40.5	28.6

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