

Besilen® - Silicone Cables

B 107

highly flexible Besilen® insulated HV single core, cULus recognized



marking example:

SAB BRÖCKSKES · D-VIERSEN · B 107 U_o/U 1,8/3 kV 95,0mm² cULus AWM Style 30122 AWM I A 150°C 3000V FT2

Application: Highly flexible single conductor for current or ground connection in railway technology, for switchboard wiring and the use in energy storage systems, test benches or power wiring.

Construction:

Conductor: bare copper strands, extra fine wires
Insulation: Besilen® EI2
 acc. to EN 50363-1 + VDE 0207-363-1
Colour: translucent

Outstanding features:

- » extremely flexible
- » halogen-free
- » flexible at low temperatures
- » heat resistant
- » flame retardant and self-extinguishing
- » weather resistant
- » cULus recognized
- » PFAS free

Technical data:

Nominal voltage: U_o/U 1,8/3,0 kV AC
 U_o/U 2,7/5,4 kV DC

Voltage cULus: 3000 V

Testing voltage: 6500 V

Current-carrying capacity: acc. to VDE 0298-4, see chapter N „Technical data“

Min. bending radius
fixed laying: 2 x d
flexible application: 4 x d

Temperature range DIN VDE cULus: up to +150 °C
fixed laying: -40/+180 °C
flexible application: -25/+180 °C
short-time use: +250 °C

Halogen-free: acc. to IEC 60754-1 + VDE 0482-754-1

Fire performance: flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, cULus FT2

Corrosiveness of conflagration gases: IEC 60754-2 + VDE 0482-754-2
 - no development of corrosive conflagration gases

Weather resistance: very good

Absence of harmful substances: acc. to RoHS directive of the European Union, see chapter N „Technical data“

item no.	nominal cross section mm ²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
01070100	1,00	0,07	4,3	9,6	25
01070150	1,50	0,07	4,7	14,4	31
01070250	2,50	0,07	5,2	24,0	43
01070400	4,00	0,07	5,9	38,4	60
01070600	6,00	0,07	6,3	57,6	80
01071000	10,00	0,07	9,0	96,0	146
01071600	16,00	0,07	9,3	153,6	194
01072500	25,00	0,10	12,0	240,0	314
01073500	35,00	0,10	13,8	336,0	431
01075000	50,00	0,10	15,7	480,0	581
01077000	70,00	0,10	17,7	672,0	792
01079500	95,00	0,10	18,8	912,0	1012
01071200	120,00	0,10	20,5	1152,0	1280
01071500	150,00	0,10	23,7	1440,0	1551
01071850	185,00	0,15	25,3	1776,0	1935
01072400	240,00	0,15	27,9	2304,0	2508
01073000	300,00	0,15	30,8	2880,0	3003

* Colour code for copper rope, position 8 of the item no.:

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|------------------|------------|
| 1 = green-yellow | 5 = green |
| 2 = blue | 6 = white |
| 3 = black | 7 = orange |
| 4 = brown | 8 = red |

Other dimensions and colours are possible on request.

Copper rope with orange sheath for E-Mobility HV test benches.