

# Besilen® - Silicone Cables

## B 108

highly flexible Besilen® insulated HV single core with copper braiding



CKSKES · D-VIERSEN · B 108 U<sub>o</sub>/U 1,8/3 kV 95,0mm<sup>2</sup>



marking example:

SAB BRÜCKSKES · D-VIERSEN · B 108 U<sub>o</sub>/U 1,8/3 kV 95,0mm<sup>2</sup>

**Application:** Grounding wire with braiding on the conductor to improve dimensional stability and contact. The design is particularly suitable for use on rail vehicles. The copper grounding wire is used as current or ground connection.

### Construction:

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

### Outstanding features:

- » extremely flexible
- » halogen-free
- » flexible at low temperatures
- » heat resistant
- » flame retardant and self-extinguishing
- » weather resistant
- » dimensionally stable construction
- » PFAS free

### Technical data:

<b>Nominal voltage</b>	4,0 - 6,0 mm <sup>2</sup> : U <sub>o</sub> /U 1,5/1,5 kV 10,0 - 150,0 mm <sup>2</sup> : U <sub>o</sub> /U 1,8/3,0 kV
<b>Testing voltage</b>	4,0 - 6,0 mm <sup>2</sup> : 4000 V 10,0 - 150,0 mm <sup>2</sup> : 6500 V
<b>Current-carrying capacity:</b>	acc. to VDE 0298-4
<b>Min. bending radius:</b>	5 x d
<b>Temperature range</b>	<i>fixed laying:</i> -40/+180 °C <i>flexible application:</i> -25/+180 °C <i>short-time use:</i> +250 °C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
<b>Corrosiveness of conflagration gases:</b>	IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
<b>Weather resistance:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see chapter N „Technical data“

item no.	nominal cross section mm <sup>2</sup>	largest single wire Ø mm	outer-Ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
01080400	4,00	0,07	5,7	53,7	66
01080600	6,00	0,07	6,1	73,3	86
01081000	10,00	0,07	9,4	116,3	164
01081600	16,00	0,07	9,7	174,2	213
01082500	25,00	0,10	12,6	285,9	351
01083500	35,00	0,10	14,4	388,3	467
01085000	50,00	0,10	16,3	542,1	623
01087000	70,00	0,10	18,5	771,8	852
01089500	95,00	0,10	19,6	1023,5	1093
01081200	120,00	0,10	21,3	1268,0	1335
01081500	150,00	0,10	24,5	1593,3	1667

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

- |                  |            |
|------------------|------------|
| 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.