



## B 108 Shielded Silicone insulated strands



Marking for B 108 01081000: SAB BRÖCKSKES · D-VIERSEN · B 108 · Uo/U 1,8/3 kV

The current and earth connection with silicone insulated copper round strands B 108 is used as current connection in the 3. current collector, at pantographs and as earth connection at wheel sets, coupling blocks and crane mountings on rail vehicles. The strands can be laid easily in narrow spaces due to its extremely flexible construction. The translucent insulation enables an easy control of the state of conductor. An additional copper support braiding under the insulation provides a supplementary reinforcement for applications with high mechanical stress.

### Construction:

<b>Conductor:</b>	bare copper strands, extra fine wires
<b>Screen:</b>	tinned copper braiding
<b>Insulation:</b>	Besilen® EI2 acc. to DIN VDE 0282 part 1 and HD 22.1
<b>Color:</b>	translucent

### Outstanding features:

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

### Technical data:

<b>Nominal voltage</b>	
12 - 10 AWG:	Uo/U 1.5/1,5 kV
from 8 AWG:	Uo/U 1.8/3.0 kV
<b>Testing voltage</b>	
12 - 10 AWG:	4000 V
from 8 AWG:	6000 V
<b>Min. bending radius:</b>	5 x O.D.
<b>Temperature range</b>	
static:	-40/+180 °C
flexing:	-25/+180 °C
short-time use:	+250 °C
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosiveness of Burnindcteristics:</b>	IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 – no development of corrosive conflagration gase
<b>Weather resistance:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

item no.	mm <sup>2</sup>	AWG	nominal inch	outer- $\varnothing$ mm	cable weight ≈ lbs/mft
▶ 01080400	4.00	12 (≈ 224/34)	0.224	5.7	45
▶ 01080600	6.00	10 (≈ 186/32)	0.240	6.1	58
▶ 01081000	10.00	8 (≈ 320/32)	0.370	9.4	110
▶ 01081600	16.00	6 (≈ 504/32)	0.382	9.7	144
▶ 01082500	25.00	4 (≈ 760/32)	0.496	12.6	236
▶ 01083500	35.00	2 (≈ 1083/32)	0.567	14.4	314
▶ 01085000	50.00	1 (≈ 703/28)	0.642	16.3	423
▶ 01087000	70.00	2/0 (≈ 988/28)	0.728	18.5	573
▶ 01089500	95.00	3/0 (≈ 1340/28)	0.772	19.6	737
▶ 01081200	120.00	4/0 (≈ 1680/28)	0.898	22.8	916
▶ 01081500	150.00	250 MCM (≈ 2122/28)	0.965	24.5	1118

Other dimensions and colors are possible on request.



**Especially  
for use in  
rail vehicles**