

# High Temperature Cables

## R 107

Silicone insulated copper rope

EN 45545-2

Nominal voltage up to  
Uo/U 1.8/3 kV

SABRail



SKES · D-VIERSEN · R 107 1.8/3 kV 25.0mm<sup>2</sup> 6107-0890



Marking for R 107 61070890:

SAB BRÖCKSKES · D-VIERSEN · R 107 1.8/3 kV 25.0mm<sup>2</sup> 6107-0890

### Construction:

<b>Conductor:</b>	bare copper strands, extremely fine wires
<b>Insulation:</b>	Besilen® EI2 acc. to EN 50363-1 + VDE 0207-363-1
<b>Color:</b>	slate gray (RAL 7015)

### Outstanding features:



- extremely flexible
- fulfills fire protection requirements  
acc. to EN 45545-2 /  
from 18 AWG to 8 AWG:  
R15 (EL1A) HL 1 / R16 (EL1B) HL 1-2  
from 6 AWG:  
R15 (EL1A) HL 1-2 / R16 (EL1B) HL 1-3
- halogen-free
- heat resistant
- flexible at low temperatures
- flame retardant and self-extinguishing
- weather resistant

### Technical data:

<b>Nominal voltage:</b>	Uo/U 1.8/3 kV
<b>Testing voltage:</b>	6500 V
<b>Current carrying capacity:</b>	acc. to VDE 0298-4, see page O20 & O21
<b>Min. bending radius:</b>	5 x O.D.
<b>Temperature range:</b>	
<i>static:</i>	-50/+180°C
<i>flexible:</i>	-25/+180°C
<i>short-time use:</i>	+250°C
<b>Halogen-free</b>	acc. to EN 50306-1 + EN 50264-1 are fulfilled. Development of HCl is < 0.5% acc. to IEC 60754-1. pH-value is > 4.3 IEC 60754-2. Conductivity is < 10.0 μS/mm acc. to IEC 60754-2. Fluoric content < 0.1% acc. to IEC 60684-2.
<b>Burning characteristics:</b>	No flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 and EN 50305 + VDE 0260-305 section 9.1.2. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
<b>Toxicity:</b>	acc. to EN 50305 + VDE 0260-305
<b>Smoke density:</b>	acc. to IEC 61034 + VDE 0482-1034
<b>Weather resistance:</b>	very good
<b>Ozone resistance:</b>	acc. to EN 50382-2 + VDE 0260-382-2
<b>Oil resistance:</b>	good
<b>Approvals:</b>	RoHS
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

item no.	mm <sup>2</sup>	AWG	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 61070882	1.50	16 (≈ 84/34)	0.272	6.9	42
▶ 61070884	2.50	14 (≈ 140/34)	0.291	7.4	51
▶ 61070886	4.00	12 (≈ 224/34)	0.319	8.1	65
▶ 61070887	6.00	10 (≈ 186/32)	0.335	8.5	80
▶ 61070888	10.00	8 (≈ 320/32)	0.394	10.0	116
▶ 61070889	16.00	6 (≈ 504/32)	0.406	10.3	149
▶ 61070890	25.00	4 (≈ 760/32)	0.476	12.1	220
▶ 61070891	35.00	2 (≈ 1083/32)	0.543	13.8	292
▶ 61070892	50.00	1 (≈ 703/28)	0.618	15.7	397
▶ 61070893	70.00	2/0 (≈ 988/28)	0.697	17.7	529
▶ 61070894	95.00	3/0 (≈ 1340/28)	0.756	19.2	699
▶ 61070895	120.00	4/0 (≈ 1680/28)	0.883	20.9	861
▶ 61070896	150.00	250 MCM (≈ 2122/28)	0.949	24.1	1067
▶ 61070897	185.00	350 MCM (≈ 1472/26)	0.996	25.3	1285
▶ 61070898	240.00	450 MCM	1.173	29.8	1664
▶ 61070899	300.00	550 MCM	1.248	31.7	2079

Other dimensions and colors are available on request



On request with  
tinned copper strands.  
Also available with  
copper braiding as R108.