

R 107 Besilen® insulated copper rope



D-VIERSEN · R 107 · 1,8/3 kV 25,0 mm² 6107-0

Marking for R 107 61070890:

SAB BRÖCKSKES · D-VIERSEN · R 107 · 1,8/3 kV 25,0 mm² 6107-0890

Construction:

Conductor:	bare copper strands, extremely fine wires
Insulation:	Besilen® EI2 acc. to DIN EN 50363-1
Colour:	slate-gray (RAL 7015)

Outstanding features:

- ▶ extremely flexible
- ▶ fulfils fire protection requirements acc. to EN 45545-2 / 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:

Noominal voltage:	U _o /U 1,8/3,0 kV
Testing voltage:	6500 V
Min. bending radius:	5 x d
Temperature range	
fixed laying:	-50/+180 °C
flexible application:	-25/+180 °C
short-time use:	+250 °C
Halogen-free:	acc. to EN 50306-1 + EN 50264-1 are fulfilled. Development of HCl is < 0,5% acc. to DIN EN 50267-2-1. pH-value is > 4,3 acc. to DIN EN 50267-2-2. Conductivity is < 10,0 µS/mm acc. to DIN EN 50267-2-2. Fluoric content < 0,1% acc. to DIN EN 60684-2.
Fire performance:	No flame propagation acc. to DIN EN 60332-3-24, DIN EN 60332-3-25 and DIN EN 50305 section 9.1.2. Flame retardant and self-extinguishing acc. to DIN EN 60332-1-2.
Toxicity:	acc. to DIN EN 50305
Smoke density:	acc. to DIN EN 61034
Weather resistance:	very good
Ozone resistance:	acc. to DIN EN 50382-2
Oil resistance:	good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/17

item no.	nominal cross section mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
61070882	1,50	0,07	6,9	14,4	62
61070884	2,50	0,07	7,4	24,0	76
61070886	4,00	0,07	8,1	38,4	97
61070887	6,00	0,07	8,5	57,6	119
61070888	10,00	0,07	10,0	96,0	171
61070889	16,00	0,07	10,3	153,6	222
61070890	25,00	0,10	12,1	240,0	328
61070891	35,00	0,10	13,8	336,0	435
61070892	50,00	0,10	15,7	480,0	591
61070893	70,00	0,10	17,7	672,0	788
61070894	95,00	0,10	19,2	912,0	1041
61070895	120,00	0,10	20,9	1152,0	1281
61070896	150,00	0,10	24,1	1440,0	1588
61070897	185,00	0,15	25,3	1776,0	1911

Other dimensions and colours are possible on request.



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



Especially for use on rail vehicles