

BESILEN® (SILICONE) CABLES

BiAF Besilen® insulated strands



Construction:

Conductor:	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	Besilen® EI2 acc. to DIN EN 50363-1

Outstanding features:

- halogen-free
- flexible at low temperatures
- heat resistant
- EAC approval

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Testing voltage:	2000 V
Min. bending radius:	7,5 x d
Radiation resistance:	2 x 10 ⁷ cJ/kg
Temperature range	
<i>fixed laying:</i>	-40/+180 °C
<i>flexible application:</i>	-25/+180 °C
<i>short-time use:</i>	+250 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 + IEC 60754-1
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Corrosiveness of conflagration gases:	IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Chem. resistance:	see page N/11
Weather resistance:	very 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
0113002...*	0,25	0,16	1,7	2,4	5
0113003...*	0,34	0,26	1,8	3,3	6
0113005...*	0,50	0,21	1,9	4,8	8
0113007...*	0,75	0,21	2,2	7,2	10
0113010...*	1,00	0,21	2,3	9,6	13
0113015...*	1,50	0,26	2,8	14,4	18
0113025...*	2,50	0,26	3,4	24,0	29
0113040...*	4,00	0,31	4,0	38,4	44
0113060...*	6,00	0,31	4,5	57,6	62
0113100...*	10,00	0,41	6,1	96,0	107
0113160...*	16,00	0,41	7,5	153,6	167

item no.	nominal cross section mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
0113250...*	25,00	0,41	9,3	240,0	271
0113350...*	35,00	0,41	10,7	336,0	376
0113500...*	50,00	0,41	12,3	480,0	523
0113700...*	70,00	0,41	14,6	672,0	713
0113950...*	95,00	0,51	17,5	912,0	961
0113120...*	120,00	0,51	19,0	1152,0	1177
0113150...*	150,00	0,51	20,9	1440,0	1462
0113185...*	185,00	0,51	23,0	1776,0	1785
0113240...*	240,00	0,51	26,9	2304,0	2404
0113300...*	300,00	0,51	30,0	2880,0	2998

Other dimensions and colours are possible on request.

* Colour code for single conductors:

...0 = green-yellow	...4 = grey
...1 = blue	...5 = white
...2 = black	...6 = reddish brown
...3 = brown	...7 = red