

Besilen® - Silicone Cables

BiAF

Besilen® insulated strands



Construction:

Conductor: tinned copper strands,
acc. to IEC 60228, VDE 0295, class 5

Insulation: Besilen® EI2
acc. to EN 50363-1 + VDE 0207-363-1

Outstanding features:

- » halogen-free
- » flexible at low temperatures
- » heat resistant

Technical data:

Nominal voltage: Uo/U 300/500 V

Testing voltage: 2000 V

Min. bending radius: 7.5 x d

Radiation resistance: 2 x 10⁷ cJ/kg

Temperature range cable

fixed laying: -40/+180 °C

flexible application: -25/+180 °C

short time use: +250 °C

Halogen-free: acc. to IEC 60754-1 + VDE 0482-754-1

Fire performance: flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2

Corrosiveness of conflagration gases: IEC 60754-2 + VDE 0482-754-2
- no development of corrosive conflagration gases

Chem. resistance: see chapter N „Technical data“

Weather resistance: very good

Absence of harmful substances: acc. to RoHS directive of the European Union,
see chapter N „Technical data“

item no.	nominal cross section mm ²	largest single wire ø mm	outer-ø ± 10% 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
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, position 8 of the item no.:

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