

# Besilen® - Silicone Cables

## BiA

Besilen® insulated wire



### Construction:

**Conductor:** solid tinned copper wire  
acc. to IEC 60228, VDE 0295, class 1

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

### Outstanding features:

- » halogen-free
- » heat resistant

### Technical data:

**Nominal voltage:** U<sub>0</sub>/U 300/300 V

**Testing voltage:** 2000 V

**Min. bending radius:** 7.5 x d

**Radiation resistance:** 2 x 10<sup>7</sup> cJ/kg

**Temperature range**  
*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 <sup>2</sup>	nominal wire-ø ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
0111005.*	0,50	0,80	1,8	4,8	8
0111007.*	0,75	0,98	2,0	7,2	10
0111010.*	1,00	1,13	2,1	9,6	13
0111015.*	1,50	1,38	2,6	14,4	19
0111025.*	2,50	1,78	3,2	24,0	31
0111040.*	4,00	2,26	3,7	38,4	47
0111060.*	6,00	2,76	4,2	57,6	67
0111100.*	10,0	3,57	5,6	96,0	114

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           |