

# Besilen® - Silicone Cables

## BiAF

Besilen® insulated strands



### Construction:

|             |                                                                |
|-------------|----------------------------------------------------------------|
| Conductor:  | tinned copper strands,<br>acc. to IEC 60228, VDE 0295, class 5 |
| Insulation: | Besilen® EI2<br>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 10 <sup>7</sup> 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<br>IEC 60332-1-2 + VDE 0482-332-1-2 |
| Corrosiveness of<br>conflagration gases: | IEC 60754-2 + VDE 0482-754-2<br>- no development of corrosive conflagration gases  |
| Chem. resistance:                        | see chapter N „Technical data“                                                     |
| Weather resistance:                      | very good                                                                          |
| Absence of<br>harmful substances:        | acc. to RoHS directive of the European Union,<br>see chapter N „Technical data“    |

| item no.  | nominal<br>cross section<br>mm <sup>2</sup> | largest<br>single wire<br>ø mm | outer-ø<br>± 10%<br>mm | copper<br>figure<br>kg/km | cable<br>weight<br>≈ 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           |