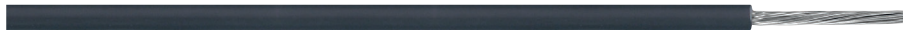


# Besilen® - Silicone Cables

## B 120

Besilen® insulated strands U<sub>0</sub>/U 3.6/6 kV

Nominal voltage  
U<sub>0</sub>/U 3.6/6 kV



### Construction:

|                    |   |
|--------------------|---|
| <b>Conductor:</b>  | tinned copper strands<br>acc. to IEC 60228, VDE 0295, class 5 |
| <b>Insulation:</b> | Besilen® EI2<br>acc. to EN 50363-1 + VDE 0207-363-1           |

### Technical data:

|  |   |
|--|---|
| <b>Nominal voltage:</b>                      | U <sub>0</sub> /U 3,6/6 kV  |
| <b>Testing voltage:</b>                      | 11 kV   |
| <b>Min. bending radius:</b>                  | 7.5 x d   |
| <b>Temperature range</b>                     |   |
| <i>fixed laying:</i>                         | -40/+180 °C   |
| <i>flexible application:</i>                 | -25/+180 °C   |
| <b>Halogen-free:</b>                         | acc. to IEC 60754-1 + VDE 0482-754-1  |
| <b>Fire performance:</b>                     | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2   |
| <b>Corrosiveness of conflagration gases:</b> | IEC 60754-2 + VDE 0482-754-2<br>- no development of corrosive conflagration gases |
| <b>Weather resistance:</b>                   | very good   |
| <b>Absence of harmful substances:</b>        | acc. to RoHS directive of the European Union<br>see chapter N „Technical Data“    |

### Outstanding features:



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

| item no.    | nominal cross section mm <sup>2</sup> | largest single wire ø mm | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km |
|-------------|---------------------------------------|--------------------------|-----------------|---------------------|----------------------|
| 0120 .. 82* | 1,50                                  | 0,26                     | 6,8             | 14,4                | 62                   |
| 0120 .. 84* | 2,50                                  | 0,26                     | 7,3             | 24,0                | 76                   |
| 0120 .. 86* | 4,00                                  | 0,31                     | 7,9             | 38,4                | 97                   |
| 0120 .. 87* | 6,00                                  | 0,31                     | 8,4             | 57,6                | 119                  |
| 0120 .. 88* | 10,00                                 | 0,41                     | 10,3            | 96,0                | 185                  |
| 0120 .. 89* | 16,00                                 | 0,41                     | 11,3            | 153,6               | 248                  |
| 0120 .. 90* | 25,00                                 | 0,41                     | 13,4            | 240,0               | 377                  |
| 0120 .. 91* | 35,00                                 | 0,41                     | 14,6            | 336,0               | 488                  |
| 0120 .. 92* | 50,00                                 | 0,41                     | 16,9            | 480,0               | 662                  |
| 0120 .. 93* | 70,00                                 | 0,41                     | 17,9            | 672,0               | 856                  |
| 0120 .. 94* | 95,00                                 | 0,51                     | 21,5            | 912,0               | 1168                 |
| 0120 .. 95* | 120,00                                | 0,51                     | 23,0            | 1152,0              | 1386                 |
| 0120 .. 96* | 150,00                                | 0,51                     | 24,7            | 1440,0              | 1680                 |
| 0120 .. 97* | 185,00                                | 0,51                     | 25,7            | 1776,0              | 1986                 |

Other dimensions and colours are possible on request.

#### \* Colour code for single conductors, position 5 and 6 of the item no.:

|             |                   |
|-------------|-------------------|
| 01 = black  | 06 = green        |
| 02 = blue   | 07 = violet       |
| 03 = brown  | 08 = white        |
| 04 = grey   | 16 = gentian blue |
| 05 = yellow | 27 = green-yellow |