

Halogen-free Cables

SABIX® A 166 FRNC

wiring cable with improved fire performance and extended temperature range 0.6/1 kV



BRÖCKSKES · D-VIERSEN · SABIX® A 166 FRNC 0,6/1 kV 1,5 mm² CE



marking example:

SAB BRÖCKSKES · D-VIERSEN · SABIX® A 166 FRNC 0,6/1 kV 1,5 mm² CE

Construction:

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

Insulation: SABIX®

Colour code: see table*

Outstanding features:

- » halogen-free
- » no flame propagation
- » flame retardant and self-extinguishing
- » very good stripping
- » flexible
- » PFAS free

Technical Data:

Nominal voltage: Uo/U 0,6/1 kV

Testing voltage: 3000 V

Min. bending radius: 7,5 x d
For one single bend: 5 x d

Temperature range
fixed laying: -40/+90 °C
flexible application: -30/+90 °C

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

Fire performance: No flame propagation
acc. to IEC 60332-3-24 + VDE 0482-332-3-24
resp. IEC 60332-3-25 + VDE 0482-332-3-25
cat. C resp. D, see chapter N „Technical data“.
Flame retardant and self-extinguishing
acc. to IEC 60332-1-2 + VDE 0482-332-1-2

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

Smoke density: acc. to IEC 61034 + VDE 0482-1034

Flexibility: good

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

| item no. | nominal cross-section mm² | largest single wire ø mm | outer-ø ± 10% mm | copper figure kg/km | cable weight ≈ kg/km |
|-------------|---------------------------|--------------------------|------------------|---------------------|----------------------|
| 6166 .. 82* | 1,50 | 0,26 | 3,2 | 14,4 | 23 |
| 6166 .. 84* | 2,50 | 0,26 | 3,9 | 24,0 | 35 |
| 6166 .. 86* | 4,00 | 0,31 | 4,5 | 38,4 | 51 |
| 6166 .. 87* | 6,00 | 0,31 | 5,0 | 57,6 | 71 |
| 6166 .. 88* | 10,00 | 0,41 | 7,3 | 96,0 | 131 |
| 6166 .. 89* | 16,00 | 0,41 | 8,3 | 153,6 | 199 |
| 6166 .. 90* | 25,00 | 0,41 | 10,2 | 240,0 | 305 |
| 6166 .. 91* | 35,00 | 0,41 | 11,4 | 336,0 | 404 |
| 6166 .. 92* | 50,00 | 0,41 | 14,1 | 480,0 | 576 |
| 6166 .. 93* | 70,00 | 0,41 | 15,1 | 672,0 | 765 |
| 6166 .. 94* | 95,00 | 0,51 | 18,5 | 912,0 | 1052 |
| 6166 .. 95* | 120,00 | 0,51 | 20,0 | 1152,0 | 1261 |
| 6166 .. 96* | 150,00 | 0,51 | 22,1 | 1440,0 | 1567 |
| 6166 .. 97* | 185,00 | 0,51 | 23,5 | 1776,0 | 1892 |
| 6166 .. 98* | 240,00 | 0,51 | 27,2 | 2304,0 | 2538 |

Other dimensions and colours are possible on request.

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

- | | |
|-------------|-------------------|
| 01 = black | 07 = violet |
| 02 = blue | 08 = white |
| 03 = brown | 09 = orange |
| 04 = grey | 11 = red |
| 05 = yellow | 16 = gentian blue |
| 06 = green | 27 = green-yellow |

On request
with tinned copper strands