

# Halogen-free Cables

## SABIX® A 166 FRNC

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



BRÖCKSKES · D-VIERSEN · SABIX® A 166 FRNC 0.6/1 kV 1.5 mm<sup>2</sup> CE

Marking for SABIX® A 166 FRNC 61660182:

SAB BRÖCKSKES · D-VIERSEN · SABIX® A 166 FRNC 0.6/1 kV 1.5 mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Color code:</b>	colored, see table below

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 0.6/1 V
<b>Testing voltage:</b>	3000 V
<b>Min. bending radius:</b>	7.5 x O.D.
<b>For one single bend:</b>	5 x O.D.
<b>Temperature range:</b>	
<i>static:</i>	-40/+90°C
<i>flexible:</i>	-30/+90°C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1
<b>Burning characteristics:</b>	No flame propagation acc. to IEC 60332-3-24 + VDE 0482-332-3-24 resp. IEC 60332-3-25 + VDE 0482-332-3-25 and EN 50305 + VDE 0260-305 section 9.1.2. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
<b>Corrosivity:</b>	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + VDE 0482-1034
<b>Flexibility:</b>	good
<b>Approvals:</b>	CE, EAC, RoHS
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

### Outstanding features:

- low smoke halogen-free (LSHF)
- no flame propagation
- flame retardant and self-extinguishing
- very good stripping
- flexible

item no.	mm <sup>2</sup>	AWG MCM	nominal outer-ø		cable weight ≈lbs/mft
			inch ±5%	mm ±5%	
▶ 6166 .. 82*	1.50	16 (≈ 27-29/30)	0.126	3.2	15
▶ 6166 .. 84*	2.50	14 (≈ 46/30)	0.154	3.9	24
▶ 6166 .. 86*	4.00	12 (≈ 52/28)	0.177	4.5	34
▶ 6166 .. 87*	6.00	10 (≈ 78/28)	0.197	5.0	48
▶ 6166 .. 88*	10.00	8 (≈ 77/26)	0.287	7.3	88
▶ 6166 .. 89*	16.00	6 (≈ 122/26)	0.327	8.3	134
▶ 6166 .. 90*	25.00	4 (≈ 190/26)	0.402	10.2	205
▶ 6166 .. 91*	35.00	2 (≈ 272/26)	0.449	11.4	271
▶ 6166 .. 92*	50.00	1 (≈ 400/26)	0.555	14.1	387
▶ 6166 .. 93*	70.00	2/0 (≈ 543/26)	0.594	15.1	514
▶ 6166 .. 94*	95.00	3/0 (≈ 484/24)	0.728	18.5	707
▶ 6166 .. 95*	120.00	4/0 (≈ 589/24)	0.787	20.0	847
▶ 6166 .. 96*	150.00	250 (≈ 740/24)	0.870	22.1	1053
▶ 6166 .. 97*	185.00	350 (≈ 902/24)	0.925	23.5	1271
▶ 6166 .. 98*	240.00	450 (≈ 1220/24)	1.071	27.2	1705

Other dimensions and colors are available on request

#### Color code for single conductors:

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



On request with  
tinned copper strands