

**SABIX® A 146 FRNC** Wiring cable 300/500V  
**SABIX® A 156 FRNC** Wiring cable 450/750V



Marking for SABIX® A 146 FRNC 61460150:  
 SAB BRÖCKSKES · D-VIERSEN · SABIX® A 146 FRNC 300/500V 0,5 mm² CE

## Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®

## Outstanding features:

- ▶ halogen-free
- ▶ no flame propagation
- ▶ flame retardant and self-extinguishing
- ▶ very good stripping
- ▶ flexible
- ▶ fulfils fire protection requirements R15 (EL1A) acc. to DIN EN 45545-2 for hazard levels HL1-3

## Technical data:

<b>Nominal voltage:</b>	<b>SABIX® A 146 FRNC:</b> U <sub>o</sub> /U 300/500 V	<b>SABIX® A 156 FRNC:</b> U <sub>o</sub> /U 450/750 V
<b>Testing voltage:</b>	<b>SABIX® A 146 FRNC:</b> 2000 V	<b>SABIX® A 156 FRNC:</b> 2500 V
<b>Min. bending radius:</b> <b>For one single bend:</b>	7,5 x d 5 x d	
<b>Temperature range</b> <i>fixed laying:</i> <i>flexible application:</i>	-50/+90 °C -40/+90 °C	
<b>Halogen-free:</b>	acc. to EN 50306-1 + EN 50264-1 are fulfilled. Development of HCl is < 0,5% acc. to DIN EN 50267-2-1. pH-value is > 4,3 acc. to DIN EN 50267-2-2. Conductivity is < 10,0 µS/mm acc. to DIN EN 50267-2-2. Fluoric content < 0,1% acc. to DIN EN 60684-2.	
<b>Fire performance:</b>	No flame propagation acc. to DIN EN 60332-3-25 and DIN EN 50305 section 9.1.2. Flame retardant and self-extinguishing acc. to DIN EN 60332-1-2.	
<b>Toxicity:</b>	acc. to DIN EN 50305	
<b>Smoke density:</b>	acc. to DIN EN 61034	
<b>Flexibility:</b>	good	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union	

### SABIX® A 146 FRNC

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
6146 .. 50*	0,50	0,21	2,1	4,8	9
6146 .. 75*	0,75	0,21	2,4	7,2	12
6146 .. 80*	1,00	0,21	2,5	9,6	14

Other dimensions and colours are possible on request.

### SABIX® A 156 FRNC

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
6156 .. 82*	1,50	0,26	3,0	14,4	20
6156 .. 84*	2,50	0,26	3,6	24,0	32
6156 .. 86*	4,00	0,31	4,2	38,4	48
6156 .. 87*	6,00	0,31	4,7	57,6	67
6156 .. 88*	10,00	0,41	6,3	96,0	117
6156 .. 89*	16,00	0,41	8,0	153,6	181
6156 .. 90*	25,00	0,41	9,9	240,0	292
6156 .. 91*	35,00	0,41	11,1	336,0	394
6156 .. 92*	50,00	0,41	12,6	480,0	563
6156 .. 93*	70,00	0,41	14,8	672,0	751
6156 .. 94*	95,00	0,51	18,2	912,0	1034
6156 .. 95*	120,00	0,51	19,7	1152,0	1241
6156 .. 96*	150,00	0,51	21,8	1440,0	1544
6156 .. 97*	185,00	0,51	23,2	1776,0	1866
6156 .. 98*	240,00	0,51	26,9	2304,0	2507
6156 .. 99*	300,00	0,51	30,0	2880,0	3125

Other dimensions and colours are possible on request.

#### \* Colour code for single conductors:

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