

# Halogen-free Cables

**SABIX® A 147 FRNC** wiring cable 600 V

**SABIX® A 157 FRNC** wiring cable 1000 V



SABIX® A 147 FRNC 300/500V 0,5 mm² 20 AWG AWM Style 10528 75°C 600V

marking example:

SAB BRÜCKSKES · D-VIERSEN · SABIX® A 147 FRNC 300/500V 0,5 mm² 20 AWG AWM Style 10528 75°C 600V

## Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	see table*

## Outstanding features:

- » halogen-free
- » no flame propagation
- » flame retardant and self-extinguishing
- » UL recognized

## Technical Data:

<b>Nominal voltage:</b>	<b>SABIX® A 147 FRNC:</b> 0,50 - 1,0 mm²: U <sub>o</sub> /U 300/500 V	<b>SABIX® A 157 FRNC:</b> 1,50 - 300,0 mm²: U <sub>o</sub> /U 450/750 V
<b>Voltage UL:</b>	<b>SABIX® A 147 FRNC:</b> 20 - 18 AWG: 600 V	<b>SABIX® A 157 FRNC:</b> 16 AWG - 550 MCM: 1000 V
<b>Testing voltage:</b>	<b>SABIX® A 147 FRNC:</b> 2000 V	<b>SABIX® A 157 FRNC:</b> 2500 V
<b>Min. bending radius: For one single bend:</b>	7,5 x d 5 x d	
<b>Temperature range</b>	<b>DIN/VDE:</b> UL: up to + 75 °C	
<i>fixed laying:</i>	-40/+90 °C	
<i>flexible application:</i>	-30/+90 °C	
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1	
<b>Fire performance:</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 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	
<b>Corrosiveness of conflagration gases:</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>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see chapter N „Technical data“	

## SABIX® A 147 FRNC

item no.	nominal cross-section mm²	AWG/MCM	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
6147 .. 50*	0,50	20 (15/32)	0,21	2,5	4,8	12
6147 .. 75*	0,75	19 (23/32)	0,21	2,8	7,2	14
6147 .. 80*	1,00	18 (30/32)	0,21	2,9	9,6	16

Other dimensions and colours are possible on request.

## SABIX® A 157 FRNC

item no.	nominal cross-section mm²	AWG/MCM	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
6157 .. 82*	1,50	16 (27/30)	0,26	3,2	14,4	22
6157 .. 84*	2,50	14 (46/30)	0,26	3,6	24,0	32
6157 .. 86*	4,00	12 (52/28)	0,31	4,3	38,4	46
6157 .. 87*	6,00	10 (70/20)	0,31	5,5	57,6	75
6157 .. 88*	10,00	8 (77/26)	0,41	6,7	96,0	117
6157 .. 89*	16,00	6 (119/26)	0,41	8,8	153,6	192
6157 .. 90*	25,00	4 (196/26)	0,41	10,2	240,0	282
6157 .. 91*	35,00	2 (280/26)	0,41	12,7	336,0	414
6157 .. 92*	50,00	1 (400/26)	0,41	13,9	480,0	573
6157 .. 93*	70,00	2/0 (554/26)	0,41	16,3	672,0	775
6157 .. 94*	95,00	3/0 (484/24)	0,51	18,4	912,0	1009
6157 .. 95*	120,00	4/0 (589/24)	0,51	20,9	1152,0	1248
6157 .. 96*	150,00	250 MCM (740/24)	0,51	22,4	1440,0	1532
6157 .. 97*	185,00	350 MCM (899/24)	0,51	25,0	1776,0	1889
6157 .. 98*	240,00	450 MCM (1220/24)	0,51	28,3	2304,0	2474
6157 .. 99*	300,00		0,51	31,0	2880,0	3063

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 |