

# Halogen-free Cables

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

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



A 147 FRNC 300/500V 0.5 mm<sup>2</sup> 20 AWG AWM Style 10528 75°C 600V CE

Marking for SABIX® A 147 FRNC 61470150:

SAB BRÖCKSKES · D-VIERSEN · SABIX® A 147 FRNC 300/500V 0.5 mm<sup>2</sup> 20 AWG AWM Style 10528 75°C 600V CE

## Construction:

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

## Outstanding features:

- low smoke halogen-free (LSHF)
- no flame propagation
- flame retardant and self-extinguishing
- UL recognition

## Technical data:

<b>Nominal voltage:</b>	<b>SABIX® A 147 FRNC:</b> 20 - 18 AWG U <sub>0</sub> /U 300/500 V	<b>SABIX® A 157 FRNC:</b> 16 AWG - 550 MCM U <sub>0</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 O.D. 5 x O.D.	
<b>Temperature range:</b>	<b>DIN VDE:</b> static: flexible:	<b>UL:</b> up to +75°C
	-40/+90°C -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 cat. C resp D; 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>	UR AWM, CE, RoHS	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30	

## SABIX® A 147 FRNC (U<sub>0</sub>/U 300/500 V)

item no.	mm <sup>2</sup>	AWG	outer-ø		cable weight ≈lbs/mft
			±10% inch	±10% mm	
▶ 6147 .. 50	0.50	20 (≈ 16/32)	0.098	2.5	8
▶ 6147 .. 75	0.75	19 (≈ 23/32)	0.110	2.8	9
▶ 6147 .. 80	1.00	18 (≈ 30/32)	0.114	2.9	11

Other dimensions and colors are available on request

## SABIX® A 157 FRNC (U<sub>0</sub>/U 450/750 V)

item no.	mm <sup>2</sup>	AWG MCM	outer-ø		cable weight ≈lbs/mft
			±10% inch	±10% mm	
▶ 6157 .. 82	1.50	16 (≈ 27-29/30)	0.126	3.2	15
▶ 6157 .. 84	2.50	14 (≈ 46/30)	0.142	3.6	22
▶ 6157 .. 86	4.00	12 (≈ 52/28)	0.169	4.3	31
▶ 6157 .. 87	6.00	10 (≈ 78/28)	0.217	5.5	50
▶ 6157 .. 88	10.00	8 (≈ 77/26)	0.264	6.7	79
▶ 6157 .. 89	16.00	6 (≈ 122/26)	0.346	8.8	129
▶ 6157 .. 90	25.00	4 (≈ 190/26)	0.402	10.2	189
▶ 6157 .. 91	35.00	2 (≈ 272/26)	0.500	12.7	278
▶ 6157 .. 92	50.00	1 (≈ 400/26)	0.547	13.9	385
▶ 6157 .. 93	70.00	2/0 (≈ 543/26)	0.642	16.3	521
▶ 6157 .. 94	95.00	3/0 (≈ 484/24)	0.724	18.4	678
▶ 6157 .. 95	120.00	4/0 (≈ 589/24)	0.823	20.9	839
▶ 6157 .. 96	150.00	250 (≈ 740/24)	0.882	22.4	1029
▶ 6157 .. 97	185.00	350 (≈ 902/24)	0.984	25.0	1269
▶ 6157 .. 98	240.00	450 (≈ 1220/24)	1.114	28.3	1662
▶ 6157 .. 99	300.00	550 (≈ 1525/24)	1.220	31.0	2058

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

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