

# HALOGEN-FREE CABLES

On request  
with tinned  
copper strands

## SABIX® A 146 FRNC Wiring cable with improved fire performance and extended temperature range 300/500 V



Marking for SABIX® A 146 FRNC 61460150:  
SAB BRÖCKSKES · D-VIERSEN · SABIX® A146 FRNC 300/500 V 0.5 mm² CE

SABIX® A 146 FRNC is a halogen-free single conductor for use in control cabinets, appliances and communication technologies, household appliances, generators and transformers, machine construction, railway technologies and other specific technologies. This cable is particularly suitable for use where human life and valuable property are exposed to an extremely high risk of fire.

### Construction:

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

### Outstanding features:

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

### Technical data:

<b>Nominal voltage:</b>	Uo/U 300/500 V
<b>Testing voltage:</b>	2000 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>fixed installation:</i>	-40/+90°C
<i>flexing:</i>	-30/+90°C
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Burning characteristics:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2
<b>Corrosivity:</b>	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Weather resistance:</b>	good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

item no.	mm²	AWG	nominal inch	outer-ø mm	cable weight ≈ lbs/mft
▶ 6146 .. 50*	0.50	20 (≈ 16/32)	0.083	2.1	6
▶ 6146 .. 75*	0.75	19 (≈ 23/32)	0.094	2.4	8
▶ 6146 .. 80*	1.00	18 (≈ 30/32)	0.098	2.5	9

Other dimensions and colors are possible on request.

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

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