

Halogen-free Cables

SABIX® A 146 FRNC

Wiring cable with improved fire performance and extended temperature range, 300/500V

EN 45545-2

Flame retardant acc. to
UN/CEC R118

SABControl



BRÖCKSKES · D-VIERSEN · SABIX® A 146 FRNC 300/500 V 0.5 mm² CE

Marking for SABIX® A 146 FRNC 61460150:

SAB BRÖCKSKES · D-VIERSEN · SABIX® A 146 FRNC 300/500 V 0.5 mm² CE

Construction:

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

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage:	2000 V
Min. bending radius: For one single bend:	7.5 x O.D. 5 x O.D.
Temperature range: <i>static</i> <i>flexible:</i>	-40/+90°C -30/+90°C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
complementary for railway technology:	acc. to EN 50306-1 + EN 50264-1 are fulfilled. Development of HCl is < 0.5% acc. to IEC 60754-1. pH-value is > 4.3 acc. to IEC 60754-2. Conductivity is < 10.0 µS/mm acc. to IEC 60754-2. Fluoric content < 0.1% acc. to IEC 60684-2
Burning characteristics:	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
Corrosivity:	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + VDE 0482-1034
Flexibility:	good
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	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
- fulfills fire protection requirements R15 (EL1A) and R16 (EL1B) acc. to EN 45545-2 for hazard levels HL1-3

item no.	mm²	AWG	nominal outer-ø		cable weight ≈lbs/mft
			inch ±5%	mm ±5%	
▶ 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 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



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