

Halogen-free Cables

SABIX® A 280 FRNC X (FR)

SABIX® Rail - Fire resistant control cable, cross linked

EN 45545-2

IEC 60331-21
EN 50200

SAB Rail



ES · D-VIERSEN · SABIX® A 280 FRNC X (FR) 5 x 0.5 mm² CE

Marking for SABIX® A 280 FRNC X (FR) 62809505:

SAB BRÖCKSKES · D-VIERSEN · SABIX® A 280 FRNC X (FR) 5 x 0.5 mm² CE

Construction:

Conductor:	tinned copper strands fine wires
Wrapping:	mica tape
Insulation:	special SABIX®
Color code:	white conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334
Stranding:	in layers
Jacket material:	special SABIX®
Jacket color:	black (RAL 9005)

Outstanding features:

- low smoke halogen-free (LSHF)
- no flame propagation
- fire resistant
- flame retardant and self-extinguishing
- good ozone resistance
- good oil and chemical resistance
- fulfills fire protection requirements R15 (EL1A) acc. to EN 45545-2 for hazard levels HL1-3
- EN 50200 PH 30 + VDE 0482-200, IEC 60331-21 + VDE 0482-331-21

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage:	conductor/conductor: 2000 V
Min. bending radius:	10 x O.D.
Temperature range: during protected fixed installation:	DIN VDE -50/+125°C
Halogen-free:	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
Insulation integrity in case of fire:	EN 50200 PH 30, VDE 0482-200, IEC 60331-21 FE 180 + VDE 0482-331
Toxicity:	acc. to EN 50305 + VDE 0260-305
Smoke density:	acc. to IEC 61034 + VDE 0482-1034
Approvals:	CE, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors	outer-ø ±10% inch	outer-ø ±10% mm	cable weight ≈lbs/mft
► 20 AWG (≈ 16/32) • 0.50 mm ²				
62809502	2	0.228	5.8	32
62809503	3	0.240	6.1	39
62809504	4	0.264	6.7	44
62809505	5	0.291	7.4	53
62809507	7	0.327	8.3	69
62809510	10	0.429	10.9	101
62809512	12	0.441	11.2	116
62809518	18	0.520	13.2	158
62809525	25	0.638	16.2	224
► 19 AWG (≈ 23/32) • 0.75 mm ²				
62809602	2	0.256	6.5	38
62809603	3	0.260	6.6	47
62809604	4	0.283	7.2	54
62809605	5	0.323	8.2	68
62809607	7	0.350	8.9	85
62809608	8	0.421	10.7	115
62809610	10	0.461	11.7	125
62809612	12	0.476	12.1	143
62809618	18	0.575	14.6	209
62809625	25	0.638	16.2	279

item no.	no. of conductors	outer-ø ±10% inch	outer-ø ±10% mm	cable weight ≈lbs/mft
► 18 AWG (≈ 30/32) • 1.00 mm ²				
62809702	2	0.252	6.4	42
62809703	3	0.268	6.8	52
62809704	4	0.291	7.4	60
62809705	5	0.331	8.4	76
62809707	7	0.362	9.2	96
62809710	10	0.476	12.1	141
62809712	12	0.492	12.5	161
62809718	18	0.594	15.1	237
62809725	25	0.713	18.1	317
► 16 AWG (≈ 27-29/30) • 1.50 mm ²				
62809802	2	0.283	7.2	56
62809803	3	0.303	7.7	72
62809804	4	0.339	8.6	86
62809805	5	0.386	9.8	110
62809807	7	0.421	10.7	139
62809808	8	0.492	12.5	177
62809810	10	0.539	13.7	196
62809812	12	0.575	14.6	236
62809818	18	0.673	17.1	333
62809825	25	0.827	21.0	461

item no.	no. of conductors	outer-ø ±10% inch	outer-ø ±10% mm	cable weight ≈lbs/mft
► 14 AWG (≈ 46/30) • 2.50 mm ²				
62809902	2	0.339	8.6	81
62809903	3	0.358	9.1	105
62809904	4	0.406	10.3	127
62809905	5	0.449	11.4	155
62809907	7	0.492	12.5	200
62809910	10	0.650	16.5	292
62809912	12	0.669	17.0	335
62809918	18	0.807	20.5	491
62809925	25	0.984	25.0	682

Other dimensions and colors are available on request