

# Halogen-free Cables

## SABIX® S 710 FRNC C1

Continuous flex halogen-free control cable with extended temperature range and higher fire protection



Marking for SABIX® S 710 FRNC C1 67101215:

SAB BRÖCKSKES · D-VIERSEN · SABIX® S 710 FRNC C1 12 x 1.5 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, VDE 0295, class 6
<b>Insulation:</b>	SABIX®
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	non-woven tape
<b>Jacket material:</b>	SABIX®
<b>Jacket color:</b>	black (RAL 9005)

### Outstanding features:

- low smoke halogen-free (LSHF)
- continuous flex
- no flame propagation
- flame retardant and self-extinguishing
- oil and fuel resistant
- good acid and alkalines resistance
- NF C 32-070 C1
- UV resistant jacket

### Technical data:

<b>Nominal voltage:</b>	Uo/U 0.6/1 kV
<b>Testing voltage:</b>	conductor/conductor: 4000 V
<b>Min. bending radius:</b>	
<i>fixed installation:</i>	4 x O.D.
<i>flexible application:</i>	6 x O.D.
<i>continuous flex:</i>	15 x O.D.
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
<b>Temperature range:</b>	
<i>static:</i>	-40/+90°C
<i>flexible:</i>	-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 + NF C 32-070 C1
<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>Toxicity:</b>	acc. to EN 50305
<b>Oil and fuel resistance:</b>	acc. to EN 50264-1 + VDE 0260-264-1
<b>UV, ozone and weather resistance:</b>	good
<b>Mycological resistance:</b>	good
<b>Approvals:</b>	CE, EAC, RoHS
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

K  
62

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
<b>▶ 20 AWG (≈ 16/32) ▪ 0.50 mm<sup>2</sup></b>				
67100205	2	0.252	6.4	42
67100505	5	0.323	8.2	65
<b>▶ 19 AWG (≈ 23/32) ▪ 0.75 mm<sup>2</sup></b>				
67100507	5	0.354	9.0	81
67100707	7	0.421	10.7	114
<b>▶ 18 AWG (≈ 30/32) ▪ 1.00 mm<sup>2</sup></b>				
67100310	3	0.311	7.9	62
67100510	5	0.366	9.3	92
67100710	7	0.437	11.1	130
67101210	12	0.535	13.6	191
67101810	18	0.634	16.1	273

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
<b>▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm<sup>2</sup></b>				
67100215	2	0.339	8.6	75
67100315	3	0.362	9.2	85
67100415	4	0.382	9.7	101
67100515	5	0.429	10.9	127
67100715	7	0.516	13.1	185
67101215	12	0.622	15.8	262
67101815	18	0.736	18.7	378
67102415	24	0.858	21.8	484
67102515	25	0.870	22.1	494
<b>▶ 14 AWG (≈ 46/30) ▪ 2.50 mm<sup>2</sup></b>				
67100325	3	0.425	10.8	123
67100425	4	0.476	12.1	161
67100525	5	0.531	13.5	198
67100725	7	0.622	15.8	274
67101225	12	0.756	19.2	392

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
<b>▶ 12 AWG (≈ 224/34) ▪ 4.00 mm<sup>2</sup></b>				
67100440	4	0.531	13.5	216
<b>▶ 10 AWG (≈ 183/32) ▪ 6.00 mm<sup>2</sup></b>				
67100460	4	0.606	15.4	287
<b>▶ 8 AWG (≈ 320/32) ▪ 10.00 mm<sup>2</sup></b>				
67100461	4	0.756	19.2	517
<b>▶ 6 AWG (≈ 504/32) ▪ 16.00 mm<sup>2</sup></b>				
67100462	4	0.870	22.1	675
<b>▶ 1 AWG (≈ 703/28) ▪ 50.00 mm<sup>2</sup></b>				
67100465	4	1.413	35.9	1846

Other dimensions and colors are available on request