

# Halogen-free Cables

## SABIX® S 712 C FRNC C1

continuously flexible control cable with improved fire performance and overall copper screen

acc. to  
NF C 32-070 C1



marking example:

SAB BRÜCKSKES · D-VIERSEN · SABIX® S 712 C FRNC C1 3 x 1,5 mm² CE

**Application:** For flexible applications in areas with highest fire protection requirements e.g. power plant technology, railway applications.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, VDE 0295, class 6
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	non-woven tape
<b>Screen:</b>	tinned copper braiding, optical coverage ≥ 85%
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	SABIX®
<b>Sheath colour:</b>	black (RAL 9005)

### Outstanding features:

- » halogen-free
- » continuously flexible
- » good EMC characteristics
- » no flame propagation
- » flame retardant and self-extinguishing
- » oil and fuel resistant
- » good acid and alkalines resistance
- » NF C 32-070 C1
- » PFAS free

### Technical Data:

<b>Nominal voltage:</b>	Uo/U 0,6/1 kV
<b>Testing voltage:</b>	core/core 4000 V core/screen 4000 V
<b>Min. bending radius</b>	
fixed laying:	4 x d
flexible application:	6 x d
continuously flexible:	15 x d
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
<b>Temperature range</b>	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1
<b>Fire performance:</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, see chapter N „Technical data“. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2 + NF C 32-070 C1
<b>Corrosiveness of conflagration gases:</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>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see chapter N „Technical data“

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
67120205	2 x 0,50	0,16	7,1	29,2	80
67120505	5 x 0,50	0,16	8,8	49,9	121
67120507	5 x 0,75	0,16	9,6	65,4	147
67120205	2 x 0,50	0,16	7,1	29,2	80
67120505	5 x 0,50	0,16	8,8	49,9	121
67120507	5 x 0,75	0,16	9,6	65,4	147
67120707	7 x 0,75	0,16	11,4	103,2	212
67120510	5 x 1,00	0,16	9,8	77,6	162
67120710	7 x 1,00	0,16	12,2	123,6	250
67121210	12 x 1,00	0,16	14,3	184,0	337
67121810	18 x 1,00	0,16	17,0	285,9	491
67120215	2 x 1,50	0,16	8,9	55,7	131
67120315	3 x 1,50	0,16	9,5	72,5	149
67120415	4 x 1,50	0,16	10,5	105,7	192
67120515	5 x 1,50	0,16	12,0	127,9	246
67121215	12 x 1,50	0,16	16,7	285,0	475
67121815	18 x 1,50	0,16	19,6	391,5	661
67122515	25 x 1,50	0,16	23,1	527,6	865

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
67120225	2 x 2,50	0,16	10,9	101,0	201
67120325	3 x 2,50	0,16	11,5	127,7	227
67122515	25 x 1,50	0,16	23,1	527,6	865
67120225	2 x 2,50	0,16	10,9	101,0	201
67120325	3 x 2,50	0,16	11,5	127,7	227
67120425	4 x 2,50	0,16	12,8	155,5	287
67120525	5 x 2,50	0,16	14,2	188,6	347
67121225	12 x 2,50	0,16	20,2	431,5	696
67120340	3 x 4,00	0,16	13,5	175,2	304
67120440	4 x 4,00	0,16	14,2	222,2	374
67120540	5 x 4,00	0,16	16,1	302,5	481
67120740	7 x 4,00	0,16	18,9	395,6	652
67120260	2 x 6,00	0,21	14,0	183,4	340
67120460	4 x 6,00	0,21	16,6	339,6	513
67120462	4 x 16,0	0,21	23,1	775,6	1131
67120463	4 x 25,0	0,21	27,2	1127,0	1615
67120464	4 x 35,0	0,21	30,9	1541,2	2171

Other dimensions and colours are possible on request.