

# Halogen-free Cables

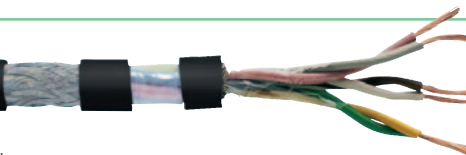
## SABIX® SD 745 C FRNC C1 TP

paired, continuously flexible data cable with improved fire performance and overall copper screen

acc. to  
NF C32-070 C1



45 C FRNC C1 TP 2 x 2 x 0,50 mm<sup>2</sup> CE



Marking for SABIX® SD 745 C FRNC C1 TP 67450250:

SAB BRÜCKSKES · D-VIERSEN · SABIX® SD 745 C FRNC C1 TP 2 x 2 x 0,50 mm<sup>2</sup> 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, extra fine wires
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	pairwise, pairs 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

### Technical Data:

<b>Peak operating voltage:</b>	< 0,25 mm <sup>2</sup> = max. 350 V ≥ 0,25 mm <sup>2</sup> = max. 500 V
<b>Testing voltage:</b>	core/core 1500 V core/screen 1200 V
<b>Min. bending radius</b> <i>fixed laying:</i> <i>flexible application:</i> <i>continuously flexible:</i>	4 x d 6 x d 15 x d
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
<b>Temperature range</b> <i>fixed laying:</i> <i>flexible application:</i>	-40/+90 °C -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 pairs x cross section n x 2 x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
67450214	2 x 2 x 0,14	0,11	4,9	18,6	36
67450414	4 x 2 x 0,14	0,11	6,2	27,5	55
67450514	5 x 2 x 0,14	0,11	6,7	32,4	65
67450614	6 x 2 x 0,14	0,11	6,9	35,3	69
67451014	10 x 2 x 0,14	0,11	8,7	52,0	102
67451414	14 x 2 x 0,14	0,11	10,2	83,4	143
67450225	2 x 2 x 0,25	0,11	5,4	23,3	43
67450425	4 x 2 x 0,25	0,11	6,9	38,4	66
67450625	6 x 2 x 0,25	0,11	7,6	50,0	87
67450725	7 x 2 x 0,25	0,11	9,2	53,4	115
67450825	8 x 2 x 0,25	0,11	9,6	64,4	131
67451025	10 x 2 x 0,25	0,11	9,8	88,3	143
67451225	12 x 2 x 0,25	0,11	10,7	105,5	167
67451425	14 x 2 x 0,25	0,11	11,3	118,1	185
67451625	16 x 2 x 0,25	0,11	11,7	122,5	199
67450234	2 x 2 x 0,34	0,11	6,5	30,3	61

item no.	no. of pairs x cross section n x 2 x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
67450634	6 x 2 x 0,34	0,11	9,4	62,8	125
67450734	7 x 2 x 0,34	0,11	10,0	87,6	154
67451034	10 x 2 x 0,34	0,11	11,6	110,9	191
67451834	18 x 2 x 0,34	0,11	14,9	184,0	314
67451934	19 x 2 x 0,34	0,11	14,9	190,6	329
67452734	27 x 2 x 0,34	0,11	17,9	286,4	461
67450250	2 x 2 x 0,50	0,11	7,1	38,6	71
67450350	3 x 2 x 0,50	0,11	7,8	51,0	88
67450450	4 x 2 x 0,50	0,11	9,3	64,1	115
67451050	10 x 2 x 0,50	0,11	13,3	155,1	255
67451850	18 x 2 x 0,50	0,11	17,1	279,3	447
67452550	25 x 2 x 0,50	0,11	19,4	358,2	568
67450275	2 x 2 x 0,75	0,11	8,0	51,3	92
67450475	4 x 2 x 0,75	0,11	10,8	103,4	166
67450875	8 x 2 x 0,75	0,11	16,2	189,4	356
67451075	10 x 2 x 0,75	0,11	15,3	237,0	352

Other dimensions and colours are possible on request.