

## SABIX® SD 745 C FRNC C1 TP Continuously flexible halogen-free paired data cable with improved fire performance and overall copper screen

SEN · SABIX SD 745 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 BRÖCKSKES · D-VIERSEN · SABIX SD 745 C FRNC C1 TP 2 x 2 x 0,50 mm<sup>2</sup> CE

A  
72

### 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
- EAC approval

\* Copper braiding should be connected circularly to optimize the EMC characteristics

### 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>	
fixed laying:	5 x d
flexible application:	10 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 DIN VDE 0472 part 815 + IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/19). Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-070 C1
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Toxicity:</b>	acc. to NF X 70-100
<b>Oil and fuel resistance:</b>	acc. to EN 50264-1
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/17

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	37
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	72
67451014	10 x 2 x 0,14	0,11	8,7	52,0	106
67451414	14 x 2 x 0,14	0,11	10,2	83,4	148
67450225	2 x 2 x 0,25	0,11	5,4	23,3	45
67450425	4 x 2 x 0,25	0,11	6,9	38,4	69
67450625	6 x 2 x 0,25	0,11	7,6	50,0	91
67450725	7 x 2 x 0,25	0,11	7,9	53,4	103
67450825	8 x 2 x 0,25	0,11	9,3	63,9	133
67451025	10 x 2 x 0,25	0,11	9,8	88,3	147
67451225	12 x 2 x 0,25	0,11	10,7	105,5	172
67451425	14 x 2 x 0,25	0,11	11,3	118,1	191

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
67451625	16 x 2 x 0,25	0,11	11,7	122,5	205
67450734	7 x 2 x 0,34	0,11	10,0	87,6	159
67451034	10 x 2 x 0,34	0,11	11,6	110,9	191
67451834	18 x 2 x 0,34	0,11	15,1	212,8	348
67450250	2 x 2 x 0,50	0,11	7,1	38,6	74
67450350	3 x 2 x 0,50	0,11	7,8	51,0	90
67450450	4 x 2 x 0,50	0,11	9,3	64,1	119
67451050	10 x 2 x 0,50	0,11	13,3	155,1	263
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	171
67450875	8 x 2 x 0,75	0,11	15,0	186,4	335
67451075	10 x 2 x 0,75	0,11	15,3	237,0	361

Other dimensions and colours are possible on request.



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