

Halogen-free Cables

SABIX® SD 745 C FRNC C1 TP

Continuous flex halogen-free shielded twisted pairs data cable with extended temperature range and higher fire protection



Marking for SABIX® SD 745 C FRNC C1 TP 67450350:

SAB BRÖCKSKES · D-VIERSEN · SABIX® SD 745 C FRNC C1 TP 3 x 2 x 0.50 mm² CE

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	SABIX®
Color code:	DIN 47100, see below
Stranding:	pairwise, pairs in layers
Wrapping:	non-woven tape
Shielding:	tinned copper braiding, optical coverage ≥ 85%
Wrapping:	non-woven tape
Jacket material:	SABIX®
Jacket color:	black (RAL 9005)

Outstanding features:

- low smoke halogen-free (LSHF)
- continuous flex
- 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
- UV resistant jacket

*copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:

Nominal voltage:	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
Testing voltage:	conductor/conductor: 1500 V conductor/shielding: 1200 V
Min. bending radius:	<i>fixed installation</i> 4 x O.D. <i>flexible application:</i> 6 x O.D. <i>continuous flex:</i> 15 x O.D.
Radiation resistance:	1 x 10 ⁷ cJ/kg (100 kGy)
Temperature range:	DIN VDE <i>static:</i> -40/+90°C <i>flexible:</i> -30/+90°C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
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 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
Corrosivity:	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + VDE 0482-1034
Toxicity:	acc. to EN 50305
Oil and fuel resistance:	acc. to EN 50264-1 + VDE 0260-264-1
UV, ozone and weather resistance:	good
Mycological resistance:	good
Approvals:	CE, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of pairs	outer-ø		cable weight
		±10% inch	±10% mm	≈lbs/mft
▶ 26 AWG (≈ 18/38) ▪ 0.14 mm²				
67450214	2	0.193	4.9	24
67450414	4	0.244	6.2	37
67450514	5	0.264	6.7	44
67450614	6	0.272	6.9	46
67451014	10	0.343	8.7	69
67451414	14	0.402	10.2	96
▶ 24 AWG (≈ 32/38) ▪ 0.25 mm²				
67450225	2	0.213	5.4	29
67450425	4	0.272	6.9	44
67450625	6	0.299	7.6	58
67450725	7	0.362	9.2	77
67450825	8	0.378	9.6	88
67451025	10	0.386	9.8	96
67451225	12	0.421	10.7	112
67451425	14	0.445	11.3	124
67451625	16	0.461	11.7	134

item no.	no. of pairs	outer-ø		cable weight
		±10% inch	±10% mm	≈lbs/mft
▶ 22 AWG (≈ 42/38) ▪ 0.34 mm²				
67450234	2	0.256	6.5	41
67450634	6	0.370	9.4	84
67450734	7	0.394	10.0	103
67451034	10	0.457	11.6	128
67451834	18	0.587	14.9	211
67451934	19	0.587	14.9	221
67452734	27	0.705	17.9	310
▶ 20 AWG (≈ 16/32) ▪ 0.50 mm²				
67450250	2	0.280	7.1	48
67450350	3	0.307	7.8	59
67450450	4	0.366	9.3	77
67451050	10	0.524	13.3	171
67451850	18	0.673	17.1	300
67452550	25	0.764	19.4	382

item no.	no. of pairs	outer-ø		cable weight
		±10% inch	±10% mm	≈lbs/mft
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
67450275	2	0.315	8.0	62
67450475	4	0.425	10.8	112
67450875	8	0.638	16.2	239
67451075	10	0.602	15.3	237

Other dimensions and colors are available on request

DIN 47100 color code:

#1- white/brown, #2- green/yellow, #3- gray/pink, #4- blue/red, #5- black/purple, #6- gray-pink/red-blue, #7- white-green/brown-green, #8- white-yellow/yellow-brown, #9- white-gray/gray-brown, #10- white-pink/pink-brown, #11- white-blue/brown-blue, #12- white-red/brown-red, #13- white-black/brown-black, #14- gray-green/yellow-gray, #15- pink-green/yellow-pink, #16- green-blue/yellow-blue, #17- green-red/yellow-red, #18- green-black/yellow-black, #19- gray-blue/pink-blue, #20- gray-red/pink-red, #21- gray-black/pink-black, #22- blue-black, red-black, #23- white/brown, #24- green/yellow, #25- gray/pink, #26- blue/red, #27- black/purple