

HALOGEN-FREE CABLES

SABIX® D 345 FRNC TP

Paired data cable with improved fire performance, overall tinned copper screen and extended temperature range



Marking for SABIX® D 345 FRNC TP 63450325:
SAB BRÖCKSKES · D-VIERSEN · SABIX® D 345 FRNC TP 3 x 2 x 0.25 mm² CE

SABIX® D 345 FRNC TP is a halogen-free, flexible, flame retardant, tinned copper shielded, multi-conductor data cable designed for use in electronics of data processing systems, weighing installations and office appliances, for increased requirements on transmission characteristics and near-end cross talk attenuation. In case of a fire, no corrosive gases are produced. This cable is particularly suitable for use where human life and valuable property are exposed to an extremely high risk of fire.

Construction:

Conductor:	bare copper strands with reference to DIN VDE 0812
Insulation:	SABIX®
Color code:	with reference to DIN 47100
Stranding:	pairwise, pairs in layers
Wrapping:	PETP foil
Screen:	tinned copper braiding
Jacket material:	SABIX®
Jacket color:	gray

Outstanding features:

- halogen-free
- no flame propagation
- good EMC characteristics*
- flame retardant and self-extinguishing
- good transmission rates and crosstalk attenuation

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

Technical data:

Peak operating voltage:	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
Testing voltage:	< 24 AWG = 800 V ≥ 24 AWG = 1200 V
Min. bending radius	
fixed installation:	5 x O.D.
free movement:	10 x O.D.
Temperature range	
static:	-40/+85°C
flexing:	-30/+85°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2.
Corrosivity:	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + EN 61034
Flexibility:	good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/29

item no.	no. of pairs	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 26 AWG (≈ 18/38) • 0.14 mm²				
63450214	2	0.213	5.4	27
63450314	3	0.232	5.9	32
63450414	4	0.272	6.9	42
63450514	5	0.291	7.4	47
63450614	6	0.299	7.6	50
63450814	8	0.323	8.2	58
63451014	10	0.350	8.9	67
63451214	12	0.382	9.7	77
63451614	16	0.413	10.5	94
63451814	18	0.437	11.1	112
63452414	24	0.504	12.8	142
▶ 24 AWG (≈ 14/34) • 0.25 mm²				
63450225	2	0.232	5.9	32
63450325	3	0.268	6.8	44
63450425	4	0.299	7.6	49
63450525	5	0.319	8.1	59
63450625	6	0.327	8.3	63
63450825	8	0.354	9.0	76
63451025	10	0.386	9.8	88
63451225	12	0.429	10.9	111
63451625	16	0.469	11.9	136
63451825	18	0.500	12.7	157
63452425	24	0.559	14.2	190

item no.	no. of pairs	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 22 AWG (≈ 7/30) • 0.34 mm²				
63450234	2	0.283	7.2	46
63450334	3	0.307	7.8	56
63450434	4	0.346	8.8	65
63450534	5	0.374	9.5	77
63450634	6	0.382	9.7	88
63450834	8	0.417	10.6	105
63451234	12	0.528	13.4	151
63451634	16	0.575	14.6	194
63451834	18	0.594	15.1	213
63452434	24	0.693	17.6	273
▶ 20 AWG (≈ 16/32) • 0.50 mm²				
63450250	2	0.299	7.6	52
63450350	3	0.327	8.3	63
63450450	4	0.370	9.4	78
63450550	5	0.402	10.2	87
63450650	6	0.409	10.4	103
63450850	8	0.449	11.4	124
63451050	10	0.520	13.2	156
63451250	12	0.567	14.4	189
63451650	16	0.642	16.3	244
63451850	18	0.665	16.9	263
63452450	24	0.748	19.0	328

item no.	no. of pairs	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 19 AWG (≈ 23/32) • 0.75 mm²				
63450275	2	0.335	8.5	66
63450375	3	0.370	9.4	82
63450475	4	0.429	10.9	107
63450575	5	0.461	11.7	122
63450675	6	0.492	12.5	144
63450875	8	0.539	13.7	202
63451275	12	0.673	17.1	263
63451675	16	0.732	18.6	318
63451875	18	0.760	19.3	349
63452475	24	0.858	21.8	433

Other dimensions and colors are possible on request.

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