

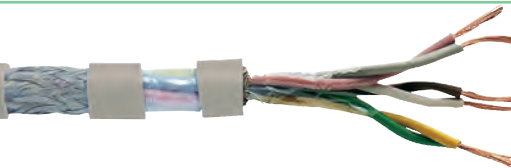
# Halogen-free Cables

## SABIX® D 345 FRNC TP

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



345 FRNC TP 3 x 2 x 0.25 mm<sup>2</sup> CE



Marking for SABIX® D 345 FRNC TP 63450325:

SAB BRÖCKSKES · D-VIERSEN · SABIX® D 345 FRNC TP 3 x 2 x 0.25 mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	bare copper strands with reference to VDE 0812
<b>Insulation:</b>	SABIX®
<b>Color code:</b>	DIN 47100, see page O/26
<b>Stranding:</b>	pairwise, pairs in layers
<b>Wrapping:</b>	PETP foil
<b>Shielding:</b>	tinned copper braiding
<b>Jacket material:</b>	SABIX®
<b>Jacket color:</b>	grayish tan (RAL 7032)

### Outstanding features:

- low smoke halogen-free (LSHF)
- 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:

<b>Peak operating voltage:</b>	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
<b>Testing voltage:</b>	conductor/conductor: 1500 V conductor/shielding: 1200 V
<b>Min. bending radius:</b>	5 x O.D. 10 x O.D.
<b>Temperature range:</b>	static: -40/+85°C flexible: -30/+85°C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1
<b>Burning characteristics:</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 Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
<b>Corrosivity:</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>Flexibility:</b>	good
<b>Approvals:</b>	CE, EAC, RoHS
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

item no.	no. of pairs	nominal outer-ø inch ±10%	mm ±10%	cable weight ≈lbs/mft
<b>▶ 26 AWG (≈ 18/38) ▪ 0.14 mm<sup>2</sup></b>				
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	55
63451014	10	0.35	8.9	69
63451214	12	0.382	9.7	75
63451614	16	0.413	10.5	89
63451814	18	0.437	11.1	105
63452414	24	0.504	12.8	137
<b>▶ 24 AWG (≈ 14/34) ▪ 0.25 mm<sup>2</sup></b>				
63450225	2	0.232	5.9	30
63450325	3	0.268	6.8	42
63450425	4	0.283	7.2	48
63450525	5	0.319	8.1	56
63450625	6	0.327	8.3	63
63450825	8	0.354	9	70
63451025	10	0.386	9.8	91
63451225	12	0.429	10.9	104
63451625	16	0.469	11.9	130
63451825	18	0.5	12.7	148
63452425	24	0.567	14.4	192

item no.	no. of pairs	nominal outer-ø inch ±10%	mm ±10%	cable weight ≈lbs/mft
<b>▶ 22 AWG (≈ 7/30) ▪ 0.34 mm<sup>2</sup></b>				
63450234	2	0.283	7.2	44
63450334	3	0.307	7.8	55
63450434	4	0.346	8.8	66
63450534	5	0.374	9.5	76
63450634	6	0.382	9.7	84
63450834	8	0.425	10.8	104
63451234	12	0.528	13.4	151
63451634	16	0.583	14.8	193
63451834	18	0.602	15.3	213
63452434	24	0.693	17.6	271
<b>▶ 20 AWG (≈ 16/32) ▪ 0.50 mm<sup>2</sup></b>				
63450250	2	0.299	7.6	50
63450350	3	0.327	8.3	63
63450450	4	0.37	9.4	78
63450550	5	0.402	10.2	87
63450650	6	0.409	10.4	102
63450850	8	0.457	11.6	124
63451050	10	0.52	13.2	156
63451250	12	0.567	14.4	183
63451650	16	0.642	16.3	244
63451850	18	0.665	16.9	263
63452450	24	0.748	19	328

item no.	no. of pairs	nominal outer-ø inch ±10%	mm ±10%	cable weight ≈lbs/mft
<b>▶ 19 AWG (≈ 23/32) ▪ 0.75 mm<sup>2</sup></b>				
63450275	2	0.335	8.5	66
63450375	3	0.37	9.4	79
63450475	4	0.429	10.9	107
63450575	5	0.461	11.7	122
63450675	6	0.492	12.5	144
63450875	8	0.594	15.1	202
63451275	12	0.673	17.1	262
63451675	16	0.732	18.6	318
63451875	18	0.76	19.3	349
63452475	24	0.858	21.8	433

Other dimensions and colors are available on request