

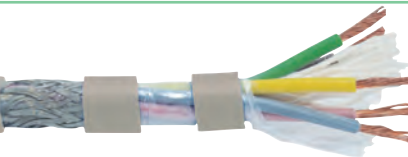
# Halogen-free Cables

## SABIX® D 315 FRNC

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



SEN · SABIX® D 315 FRNC 7 x 0.5 mm<sup>2</sup> CE



Marking for SABIX® D 315 FRNC 63150750:

SAB BRÖCKSKES · D-VIERSEN · SABIX® D 315 FRNC 7 x 0.5 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 next page
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	foil
<b>Shielding:</b>	tinned copper braiding
<b>Jacket material:</b>	SABIX®
<b>Jacket color:</b>	grayish tan (RAL 7032)

### 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. <i>fixed installation:</i> 10 x O.D. <i>free movement:</i>
<b>Temperature range:</b>	<b>DIN VDE</b> <i>static:</i> -40/+85°C <i>flexible:</i> -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, RoHS
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

### Outstanding features:



- low smoke halogen-free (LSHF)
- no flame propagation
- good EMC characteristics\*
- flame retardant and self-extinguishing

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

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		±10% inch	±10% mm	
<b>▶ 26 AWG (≈ 18/38) ▪ 0.14 mm<sup>2</sup></b>				
63150214	2	0.150	3.8	15
63150314	3	0.157	4.0	17
63150414	4	0.165	4.2	18
63150514	5	0.177	4.5	22
63150714	7	0.189	4.8	26
63150814	8	0.220	5.6	31
63151014	10	0.236	6.0	34
63151214	12	0.260	6.6	43
63151414	14	0.268	6.8	46
63151614	16	0.280	7.1	51
63151814	18	0.291	7.4	55
63152114	21	0.315	8.0	56
63152414	24	0.315	8.0	60
63152714	27	0.339	8.6	70
63153014	30	0.346	8.8	75
63153214	32	0.358	9.1	79
63153614	36	0.370	9.4	86
63154014	40	0.394	10.0	95
63154414	44	0.417	10.6	109
63155014	50	0.433	11.0	118
63155214	52	0.433	11.0	120
63156114	61	0.457	11.6	136

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		±10% inch	±10% mm	
<b>▶ 24 AWG (≈ 14/34) ▪ 0.25 mm<sup>2</sup></b>				
63150225	2	0.161	4.1	17
63150325	3	0.169	4.3	19
63150425	4	0.181	4.6	22
63150525	5	0.201	5.1	29
63150725	7	0.217	5.5	34
63150825	8	0.256	6.5	44
63151025	10	0.276	7.0	50
63151225	12	0.283	7.2	54
63151425	14	0.295	7.5	60
63151625	16	0.307	7.8	66
63151825	18	0.323	8.2	73
63152125	21	0.346	8.8	82
63152425	24	0.366	9.3	87
63152725	27	0.374	9.5	95
63153025	30	0.386	9.8	102
63153225	32	0.398	10.1	108
63153625	36	0.421	10.7	127
63154025	40	0.445	11.3	140
63154425	44	0.465	11.8	148
63155025	50	0.500	12.7	171
63155225	52	0.500	12.7	175
63156125	61	0.528	13.4	198

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		±10% inch	±10% mm	
<b>▶ 22 AWG (≈ 7/30) ▪ 0.34 mm<sup>2</sup></b>				
63150234	2	0.185	4.7	23
63150334	3	0.201	5.1	28
63150434	4	0.217	5.5	32
63150534	5	0.232	5.9	37
63150734	7	0.268	6.8	49
63150834	8	0.299	7.6	58
63151034	10	0.323	8.2	65
63151234	12	0.331	8.4	72
63151434	14	0.346	8.8	79
63151634	16	0.362	9.2	87
63151834	18	0.382	9.7	97
63152134	21	0.421	10.7	119
63152434	24	0.445	11.3	130
63152734	27	0.453	11.5	139
63153034	30	0.469	11.9	149
63153234	32	0.500	12.7	166
63153634	36	0.520	13.2	183
63154034	40	0.551	14.0	202
63154434	44	0.575	14.6	214
63155034	50	0.622	15.8	259
63155234	52	0.622	15.8	265
63156134	61	0.657	16.7	246

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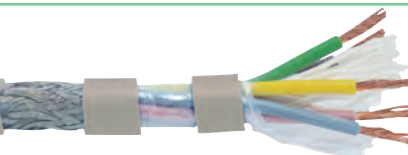
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item no.	no. of conductors	outer-ø		cable weight
		±10% inch	±10% mm	≈lbs/mft
<b>▶ 20 AWG (≈ 16/32) ▪ 0.50 mm<sup>2</sup></b>				
63150250	2	0.205	5.2	28
63150350	3	0.213	5.4	31
63150450	4	0.228	5.8	36
63150550	5	0.264	6.7	48
63150750	7	0.283	7.2	57
63150850	8	0.323	8.2	69
63151050	10	0.346	8.8	76
63151250	12	0.354	9.0	85
63151450	14	0.370	9.4	93
63151650	16	0.390	9.9	105
63151850	18	0.417	10.6	124
63152150	21	0.457	11.6	148
63152450	24	0.496	12.6	162
63152750	27	0.504	12.8	175
63153050	30	0.520	13.2	190
63153250	32	0.539	13.7	201
63153650	36	0.559	14.2	222
63154450	44	0.646	16.4	284
63155050	50	0.669	17.0	315
63156150	61	0.709	18.0	363

item no.	no. of conductors	outer-ø		cable weight
		±10% inch	±10% mm	≈lbs/mft
<b>▶ 19 AWG (≈ 23/32) ▪ 0.75 mm<sup>2</sup></b>				
63150275	2	0.228	5.8	34
63150375	3	0.256	6.5	44
63150475	4	0.276	7.0	52
63150575	5	0.295	7.5	60
63150775	7	0.319	8.1	75
63150875	8	0.362	9.2	89
63151275	12	0.413	10.5	120
63151475	14	0.433	11.0	133
63151675	16	0.453	11.5	151
63151875	18	0.488	12.4	173
63152175	21	0.535	13.6	200
63152475	24	0.567	14.4	218
63152775	27	0.579	14.7	237
63153075	30	0.622	15.8	280
63153275	32	0.642	16.3	296
63153675	36	0.665	16.9	322

item no.	no. of conductors	outer-ø		cable weight
		±10% inch	±10% mm	≈lbs/mft
<b>▶ 18 AWG (≈ 30/32) ▪ 1.00 mm<sup>2</sup></b>				
63150280	2	0.236	6.0	37
63150380	3	0.264	6.7	49
63150480	4	0.283	7.2	58
63150580	5	0.307	7.8	69
63150680	6	0.331	8.4	80
63150780	7	0.331	8.4	85
<b>▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm<sup>2</sup></b>				
63150285	2	0.276	7.0	52
63150385	3	0.287	7.3	60
63150485	4	0.311	7.9	73
63150585	5	0.339	8.6	87
63150685	6	0.366	9.3	102
63150785	7	0.366	9.3	109

Other dimensions and colors are available on request

### DIN 47100 color code:

#1- white, #2- brown, #3- green, #4- yellow, #5- gray, #6- pink, #7- blue, #8- red, #9- black, #10- violet, #11- gray-pink, #12- red-blue, #13- white-green, #14- brown-green, #15- white-yellow, #16- yellow-brown, #17- white-gray, #18- gray-brown, #19- white-pink, #20- pink-brown, #21- white-blue, #22- brown-blue, #23- white-red, #24- brown-red, #25- white-black, #26- brown-black, #27- gray-green, #28- yellow-gray, #29- pink-green, #30- yellow-pink, #31- green-blue, #32- yellow-blue, #33- green-red, #34- yellow-red, #35- green-black, #36- yellow-black, #37- gray-blue, #38- pink-blue, #39- gray-red, #40- pink-red, #41- gray-black, #42- pink-black, #43- blue-black, #44- red-black, #45- white-brown-black, #46- yellow-green-black, #47- gray-pink-black, #48- red-blue-black, #49- white-green-black, #50- brown-green-black, #51- white-yellow-black, #52- yellow-brown-black, #53- white-gray-black, #54- gray-brown-black, #55- white-pink-black, #56- pink-brown-black, #57- white-blue-black, #58- brown-blue-black, #59- white-red-black, #60- brown-red-black, #61- black-white