

HALOGEN-FREE CABLES

SABIX® D 315 FRNC Flexible data cable with improved fire performance, overall copper screen and extended temperature range



Marking for SABIX® D 315 FRNC 63150750:
SAB BRÖCKSKES · D-VIERSEN · SABIX® D 315 FRNC 7 x 0,5 mm² CE

SABIX® D 315 FRNC 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. 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 a 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:	in layers
Wrapping:	PETP foil
Screen:	tinned copper braiding
Jacket material:	SABIX®
Jacket color:	gray

Outstanding features:

- halogen-free
- good EMC characteristics*
- no flame propagation
- flame retardant and self-extinguishing

* 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 <i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
Temperature range <i>static:</i>	-40/+85 °C
<i>flexing:</i>	-30/+85 °C
Zero halogen:	acc. to DINVDE 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 N/28

item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 26 AWG (≈ 18/38) • 0.14 mm ²				
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	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 24 AWG (≈ 14/34) • 0.25 mm ²				
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	149
63155025	50	0.500	12.7	171
63155225	52	0.500	12.7	175
63156125	61	0.528	13.4	198

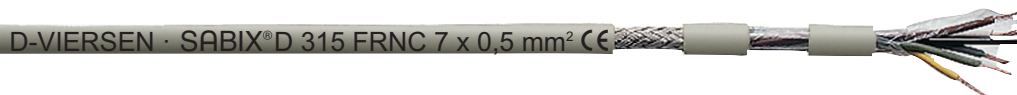
item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 22 AWG (≈ 7/30) • 0.34 mm ²				
63150234	2	0.185	4.7	23
63150334	3	0.201	5.1	28
63150434	4	0.217	5.5	32
63150534	5	0.232	5.9	37
63150734	7	0.268	6.8	49
63150834	8	0.299	7.6	58
63151034	10	0.323	8.2	65
63151234	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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free movement:	10 x O.D.
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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 N/28

item no.	no. of conductors	nominal outer- ϕ inch	nominal outer- ϕ mm	cable weight \approx lbs/mft	item no.	no. of conductors	nominal outer- ϕ inch	nominal outer- ϕ mm	cable weight \approx lbs/mft	item no.	no. of conductors	nominal outer- ϕ inch	nominal outer- ϕ mm	cable weight \approx lbs/mft
▶ 20 AWG (\approx 16/32) • 0.50 mm²					▶ 19 AWG (\approx 23/32) • 0.75 mm²					▶ 18 AWG (\approx 30/32) • 1.00 mm²				
63150250	2	0.205	5.2	28	63150275	2	0.228	5.8	34	63150280	2	0.236	6.0	37
63150350	3	0.213	5.4	31	63150375	3	0.256	6.5	44	63150380	3	0.264	6.7	49
63150450	4	0.228	5.8	36	63150475	4	0.276	7.0	52	63150480	4	0.283	7.2	58
63150550	5	0.264	6.7	48	63150575	5	0.295	7.5	60	63150580	5	0.307	7.8	69
63150750	7	0.283	7.2	57	63150775	7	0.319	8.1	75	63150680	6	0.331	8.4	80
63150850	8	0.323	8.2	69	63150875	8	0.362	9.2	89	63150780	7	0.331	8.4	85
63151050	10	0.346	8.8	76	63151275	12	0.413	10.5	120	▶ 18 AWG (\approx 30/32) • 1.50 mm²				
63151250	12	0.354	9.0	85	63151475	14	0.433	11.0	133	63150285	2	0.276	7.0	52
63151450	14	0.370	9.4	93	63151675	16	0.453	11.5	151	63150385	3	0.287	7.3	60
63151650	16	0.390	9.9	105	63151875	18	0.488	12.4	173	63150485	4	0.311	7.9	73
63151850	18	0.417	10.6	124	63152175	21	0.535	13.6	200	63150585	5	0.339	8.6	87
63152150	21	0.457	11.6	148	63152475	24	0.567	14.4	218	63150685	6	0.366	9.3	102
63152450	24	0.496	12.6	162	63152775	27	0.579	14.7	237	63150785	7	0.366	9.3	109
63152750	27	0.504	12.8	175	63153075	30	0.622	15.8	280	Other dimensions and colors are possible on request.				
63153050	30	0.520	13.2	190	63153275	32	0.642	16.3	296					
63153250	32	0.539	13.7	201	63153675	36	0.665	16.9	322					
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										

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