

HALOGEN-FREE CABLES



SABIX® D 305 FRNC Flexible data cable with improved fire performance and extended temperature range



Marking for SABIX® D 305 FRNC 63053250:
SAB BRÖCKSKES · D-VIERSEN · SABIX® D 305 FRNC 32 x 0,5 mm² CE

SABIX® D 305 FRNC is a halogen free, flexible, flame retardant multi-conductor, data cable designed for use in communication technologies. 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® 336
Color code:	with reference to DIN 47100
Stranding:	in layers
Jacket material:	SABIX® FRNC
Jacket color:	gray

Outstanding features:

- halogen-free
- no flame propagation
- flame retardant and self-extinguishing
- easy stripping
- antiparallelism
- flexible

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 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 N/28

item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 26 AWG (≈ 18/38) • 0.14 mm²					▶ 24 AWG (≈ 14/34) • 0.25 mm²					▶ 22 AWG (≈ 7/30) • 0.34 mm²				
63050214	2	0.130	3.3	11	63050225	2	0.142	3.6	13	63050234	2	0.165	4.2	17
63050314	3	0.138	3.5	12	63050325	3	0.150	3.8	15	63050334	3	0.173	4.4	20
63050414	4	0.146	3.7	13	63050425	4	0.161	4.1	17	63050434	4	0.181	4.6	24
63050514	5	0.154	3.9	15	63050525	5	0.173	4.4	21	63050534	5	0.205	5.2	29
63050714	7	0.169	4.3	19	63050725	7	0.189	4.8	26	63050734	7	0.224	5.7	36
63050814	8	0.205	5.2	24	63050825	8	0.213	5.4	30	63050834	8	0.264	6.7	44
63051214	12	0.217	5.5	28	63051225	12	0.248	6.3	41	63051234	12	0.295	7.5	57
63051414	14	0.224	5.7	32	63051425	14	0.260	6.6	46	63051434	14	0.327	8.3	70
63051614	16	0.244	6.2	37	63051625	16	0.272	6.9	52	63051634	16	0.343	8.7	78
63051814	18	0.256	6.5	41	63051825	18	0.287	7.3	57	63051834	18	0.362	9.2	86
63052114	21	0.280	7.1	48	63052125	21	0.327	8.3	71	63052134	21	0.394	10.0	98
63052414	24	0.295	7.5	54	63052425	24	0.331	8.4	74	63052434	24	0.417	10.6	106
63052714	27	0.319	8.1	61	63052725	27	0.339	8.6	77	63052734	27	0.425	10.8	116
63053014	30	0.327	8.3	65	63053025	30	0.350	8.9	84	63053034	30	0.441	11.2	126
63053214	32	0.339	8.6	69	63053225	32	0.362	9.2	89	63053234	32	0.457	11.6	134
63053614	36	0.350	8.9	76	63053625	36	0.394	10.0	105	63053634	36	0.476	12.1	148
63054014	40	0.374	9.5	83	63054025	40	0.417	10.6	116	63054034	40	0.508	12.9	164
63054414	44	0.390	9.9	89	63054425	44	0.437	11.1	124	63054434	44	0.531	13.5	175
63055014	50	0.406	10.3	95	63055025	50	0.457	11.6	137	63055034	50	0.571	14.5	204
63056114	61	0.429	10.9	111	63056125	61	0.484	12.3	162	63056134	61	0.606	15.4	241

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BRÖCKSKES · D-VIERSEN · SABIX® D 305 FRNC 32 x

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item no.	no. of conductors	nominal outer- inch	nominal outer- mm	cable weight ≈ lbs/mft
➤ 20 AWG (≈ 16/32) • 0.50 mm ²				
63050250	2	0.177	4.5	21
63050350	3	0.185	4.7	24
63050450	4	0.201	5.1	29
63050550	5	0.220	5.6	34
63050750	7	0.248	6.3	45
63050850	8	0.287	7.3	55
63051250	12	0.335	8.5	76
63051450	14	0.350	8.9	85
63051650	16	0.370	9.4	95
63051850	18	0.390	9.9	106
63052150	21	0.429	10.9	121
63052450	24	0.453	11.5	131
63052750	27	0.461	11.7	143
63053050	30	0.476	12.1	156
63053250	32	0.496	12.6	167
63053650	36	0.516	13.1	184
63054450	44	0.594	15.1	229
63055050	50	0.618	15.7	276
63056150	61	0.657	16.7	301

item no.	no. of conductors	nominal outer- inch	nominal outer- mm	cable weight ≈ lbs/mft
➤ 19 AWG (≈ 23/32) • 0.75 mm ²				
63050275	2	0.201	5.1	28
63050375	3	0.213	5.4	33
63050475	4	0.240	6.1	42
63050575	5	0.260	6.6	49
63050775	7	0.283	7.2	61
63050875	8	0.343	8.7	80
63051275	12	0.386	9.8	103
63051475	14	0.406	10.3	114
63051675	16	0.425	10.8	129
63051875	18	0.449	11.4	143
63052175	21	0.492	12.5	167
63052475	24	0.524	13.3	181
63052775	27	0.535	13.6	200
63053075	30	0.571	14.5	228
63053275	32	0.591	15.0	242
63053675	36	0.614	15.6	268
63054075	40	0.657	16.7	298
63054475	44	0.689	17.5	319
63055075	50	0.720	18.3	356
63056175	61	0.780	19.8	435

item no.	no. of conductors	nominal outer- inch	nominal outer- mm	cable weight ≈ lbs/mft
➤ 18 AWG (≈ 30/32) • 1.00 mm ²				
63050280	2	0.209	5.3	32
63050380	3	0.220	5.6	38
63050480	4	0.248	6.3	48
63050580	5	0.272	6.9	58
63050680	6	0.295	7.5	67
63050780	7	0.311	7.9	78
➤ 16 AWG (≈ 27-29/30) • 1.50 mm ²				
63050285	2	0.240	6.1	43
63050385	3	0.252	6.4	52
63050485	4	0.276	7.0	63
63050585	5	0.319	8.1	82
63050685	6	0.346	8.8	95
63050785	7	0.346	8.8	103

Other dimensions and colors are possible on request.