

Halogen-free Cables

SABIX® D 305 FRNC

Flexible data cable with improved fire performance and extended temperature range



D-VIERSEN · SABIX® D 305 FRNC 32 x 0.5 mm² CE



Marking for SABIX® D 305 FRNC 63053250:

SAB BRÖCKSKES · D-VIERSEN · SABIX® D 305 FRNC 32 x 0.5 mm² CE

Construction:

Conductor:	bare copper strands with reference to VDE 0812
Insulation:	SABIX®
Color code:	DIN 47100, see below
Stranding:	in layers
Jacket material:	SABIX®
Jacket color:	grayish tan (RAL 7015)

Outstanding features:

- low smoke halogen-free (LSHF)
- no flame propagation
- flame retardant and self-extinguishing
- easy stripping
- low capacitance
- flexible

Technical data:

Peak operating voltage:	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
Testing voltage:	conductor/conductor: 1500 V
Min. bending radius:	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
Temperature range:	DIN VDE
<i>static:</i>	-40/+85°C
<i>flexible:</i>	-30/+85°C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Burning characteristics:	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
Corrosivity:	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Smoke density:	acc. to IEC 61034 + VDE 0482-1034
Flexibility:	good
Approvals:	CE, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		±10% inch	±10% mm	
▶ 26 AWG (≈ 18/38) • 0.14 mm²				
63050214	2	0.130	3.3	11
63050314	3	0.138	3.5	12
63050414	4	0.146	3.7	13
63050514	5	0.154	3.9	15
63050714	7	0.169	4.3	19
63050814	8	0.205	5.2	24
63051214	12	0.217	5.5	28
63051414	14	0.224	5.7	32
63051614	16	0.244	6.2	37
63051814	18	0.256	6.5	41
63052114	21	0.280	7.1	48
63052414	24	0.295	7.5	54
63052714	27	0.319	8.1	61
63053014	30	0.327	8.3	65
63053214	32	0.339	8.6	69
63053614	36	0.350	8.9	76
63054014	40	0.374	9.5	83
63054414	44	0.390	9.9	89
63055014	50	0.406	10.3	95
63056114	61	0.429	10.9	111

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		±10% inch	±10% mm	
▶ 24 AWG (≈ 14/34) • 0.25 mm²				
63050225	2	0.142	3.6	13
63050325	3	0.150	3.8	15
63050425	4	0.161	4.1	17
63050525	5	0.173	4.4	21
63050725	7	0.189	4.8	26
63050825	8	0.213	5.4	30
63051225	12	0.248	6.3	41
63051425	14	0.260	6.6	46
63051625	16	0.272	6.9	52
63051825	18	0.287	7.3	57
63052125	21	0.327	8.3	71
63052425	24	0.331	8.4	74
63052725	27	0.339	8.6	77
63053025	30	0.350	8.9	84
63053225	32	0.362	9.2	89
63053625	36	0.394	10.0	105
63054025	40	0.417	10.6	116
63054425	44	0.437	11.1	124
63055025	50	0.457	11.6	137
63056125	61	0.484	12.3	162

item no.	no. of conductors	outer-ø		cable weight ≈lbs/mft
		±10% inch	±10% mm	
▶ 22 AWG (≈ 7/30) • 0.34 mm²				
63050234	2	0.165	4.2	17
63050334	3	0.173	4.4	20
63050434	4	0.181	4.6	24
63050534	5	0.205	5.2	29
63050734	7	0.224	5.7	36
63050834	8	0.264	6.7	44
63051234	12	0.295	7.5	57
63051434	14	0.327	8.3	70
63051634	16	0.343	8.7	78
63051834	18	0.362	9.2	86
63052134	21	0.394	10.0	98
63052434	24	0.417	10.6	105
63052734	27	0.425	10.8	116
63053034	30	0.441	11.2	126
63053234	32	0.457	11.6	134
63053634	36	0.476	12.1	148
63054034	40	0.508	12.9	164
63054434	44	0.531	13.5	175
63055034	50	0.571	14.5	204
63056134	61	0.606	15.4	241

Continued on next page

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



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D-VIERSEN · SABIX® D 305 FRNC 32 x 0.5 mm² CE



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item no.	no. of conductors	outer-ø		cable weight
		±10% inch	±10% mm	≈lbs/mft
▶ 20 AWG (≈ 16/32) ▪ 0.50 mm²				
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	105
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	outer-ø		cable weight
		±10% inch	±10% mm	≈lbs/mft
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
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	outer-ø		cable weight
		±10% inch	±10% mm	≈lbs/mft
▶ 18 AWG (≈ 30/32) ▪ 1.00 mm²				
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 mm²				
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 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