

# HALOGEN-FREE CABLES



## SABIX® CC 625 FRNC M Control cable with numbered conductors



Marking for SABIX® CC 625 FRNC M 62521612: SAB BRÖCKSKES · D-VIERSEN ·  
62521215 12 x 1,5 mm<sup>2</sup> SABIX® CC 625 FRNC M 16 AWG/12c 62521612 AWM Style 21089 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

SABIX® CC 625 FRNC M is a halogen free, multi-conductor, flexible power and control cable designed for use in all electrical equipment in dry, damp, and wet conditions. Recommended applications include machinery, data processing equipment, ventilation and air conditioning systems. In case of fire no corrosive gases are produced. This cable is particularly suitable for use where human life and valuable property are exposed to an extremely high risk of fire.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	FRNC
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
<b>Stranding:</b>	in layers
<b>Jacket material:</b>	FRNC
<b>Jacket color:</b>	gray

### Outstanding features:

- ▶ halogen-free
- ▶ UL recognized, CSA approved
- ▶ no flame propagation
- ▶ flame retardant and self-extinguishing
- ▶ flexible

### Technical data:

<b>Nominal voltage:</b>	<b>UL/CSA:</b> 600 V <b>DIN VDE:</b> U <sub>o</sub> /U 300/500 V
<b>Testing voltage:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b> <i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.
<b>Temperature range</b> <i>static:</i> <i>flexing:</i>	<b>DIN VDE:</b> -40/+90 °C -30/+90 °C <b>UL:</b> up to +75 °C <b>CSA:</b> up to +80 °C
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Burning characteristics:</b>	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, CSA FT1
<b>Corrosivity:</b>	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	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	item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
<b>▶ 20 AWG (≈ 16/32) • 0.50 mm<sup>2</sup></b>					<b>▶ 19 AWG (≈ 23/32) • 0.75 mm<sup>2</sup></b>					<b>▶ 18 AWG (≈ 30/32) • 1.00 mm<sup>2</sup></b>				
62522002	2	0.205	5.2	27	62521902	2	0.224	5.7	32	62521802	2	0.232	5.9	36
62522003	3	0.217	5.5	32	62521903	3	0.236	6.0	38	62521803	3	0.248	6.3	44
62522004	4	0.232	5.9	38	62521904	4	0.256	6.5	46	62521804	4	0.268	6.8	54
62522005	5	0.252	6.4	44	62521905	5	0.280	7.1	54	62521805	5	0.295	7.5	65
62522007	7	0.276	7.0	56	62521907	7	0.311	7.9	71	62521807	7	0.323	8.2	83
62522008	8	0.323	8.2	70	62521908	8	0.366	9.3	89	62521808	8	0.378	9.6	102
62522009	9	0.350	8.9	79	62521909	9	0.390	9.9	97	62521809	9	0.413	10.5	116
62522010	10	0.358	9.1	81	62521910	10	0.398	10.1	100	62521810	10	0.421	10.7	120
62522012	12	0.366	9.3	91	62521912	12	0.417	10.6	118	62521812	12	0.433	11.0	137
62522014	14	0.386	9.8	103	62521914	14	0.437	11.1	132	62521814	14	0.453	11.5	155
62522016	16	0.413	10.5	119	62521916	16	0.469	11.9	152	62521818	18	0.512	13.0	198
62522018	18	0.437	11.1	132	62521918	18	0.492	12.5	168	62521825	25	0.622	15.8	271
62522025	25	0.531	13.5	181	62521925	25	0.598	15.2	231	62521830	30	0.654	16.6	321
62522030	30	0.547	13.9	208	62521930	30	0.618	15.7	267	62521834	34	0.709	18.0	365
62522034	34	0.598	15.2	239	62521934	34	0.673	17.1	304	62521840	40	0.768	19.5	429
62522040	40	0.650	16.5	283	62521940	40	0.732	18.6	360	62521841	41	0.768	19.5	454
62522041	41	0.650	16.5	288	62521941	41	0.732	18.6	366	62521861	61	0.902	22.9	626
62522061	61	0.760	19.3	409	62521961	61	0.866	22.0	528					

Continued on next page

# HALOGEN-FREE CABLES

## SABIX® CC 625 FRNC M Control cable with numbered conductors



21089 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 CE

Marking for SABIX® CC 625 FRNC M 62521612: SAB BRÖCKSKES · D-VIERSEN ·  
62521215 12 x 1,5 mm<sup>2</sup> SABIX® CC 625 FRNC M 16 AWG/12c 62521612 AWM Style 21089 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 CE

SABIX® CC 625 FRNC M is a halogen free, multi-conductor, flexible power and control cable designed for use in all electrical equipment in dry, damp, and wet conditions. Recommended applications include machinery, data processing equipment, ventilation and air conditioning systems. In case of fire no corrosive gases are produced. This cable is particularly suitable for use where human life and valuable property are exposed to an extremely high risk of fire.

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	FRNC
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
<b>Stranding:</b>	in layers
<b>Jacket material:</b>	FRNC
<b>Jacket color:</b>	gray

### Outstanding features:

- halogen-free
- UL recognized, CSA approved
- no flame propagation
- flame retardant and self-extinguishing
- flexible

### Technical data:

<b>Nominal voltage:</b>	<b>UL/CSA:</b> 600 V <b>DIN/VE:</b> U <sub>o</sub> /U 300/500 V
<b>Testing voltage:</b>	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2
<b>Min. bending radius</b> <i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.
<b>Temperature range</b> <i>static:</i>	<b>DIN VDE:</b> -40/+90 °C <b>UL:</b> up to +75 °C <b>CSA:</b> up to +80 °C
<i>flexing:</i>	-30/+90 °C
<b>Zero halogen:</b>	acc. to DIN/VE 0472 part 815 and IEC 60754-1
<b>Burning characteristics:</b>	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, CSA FT1
<b>Corrosivity:</b>	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Flexibility:</b>	good
<b>Absence of harmful substances:</b>	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	item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
<b>▶ 16 AWG (≈ 27-29/30) • 1.50 mm<sup>2</sup></b>					<b>▶ 14 AWG (≈ 46/30) • 2.50 mm<sup>2</sup></b>					<b>▶ 10 AWG (≈ 78/28) • 6.00 mm<sup>2</sup></b>				
62521602	2	0.256	6.5	46	62521402	2	0.307	7.8	70	62521003	3	0.449	11.4	182
62521603	3	0.272	6.9	57	62521403	3	0.327	8.3	86	62521004	4	0.500	12.7	230
62521604	4	0.299	7.6	71	62521404	4	0.362	9.2	108	62521005	5	0.559	14.2	286
62521605	5	0.327	8.3	87	62521405	5	0.398	10.1	131	<b>▶ 8 AWG (≈ 77/26) • 10.00 mm<sup>2</sup></b>				
62521607	7	0.366	9.3	112	62521407	7	0.441	11.2	173	62520804	4	0.677	17.2	409
62521608	8	0.429	10.9	136	62521408	8	0.528	13.4	212	62520805	5	0.760	19.3	508
62521609	9	0.465	11.8	153	62521409	9	0.563	14.3	234	<b>▶ 6 AWG (≈ 122/26) • 16.00 mm<sup>2</sup></b>				
62521610	10	0.476	12.1	161	62521409	10	0.583	14.8	252	62520604	4	0.831	21.1	611
62521612	12	0.488	12.4	184	62521412	12	0.602	15.3	290	<b>▶ 4 AWG (≈ 190/26) • 25.00 mm<sup>2</sup></b>				
62521614	14	0.512	13.0	209	62521418	18	0.717	18.2	425	62520404	4	1.043	26.5	991
62521618	18	0.587	14.9	271	62521425	25	0.878	22.3	585	<b>▶ 2 AWG (≈ 272/26) • 35.00 mm<sup>2</sup></b>				
62521625	25	0.713	18.1	375	<b>▶ 12 AWG (≈ 52/28) • 4.00 mm<sup>2</sup></b>					62520204	4	1.189	30.2	1347
62521630	30	0.736	18.7	435	62521203	3	0.382	9.7	126	Other dimensions and colors are possible on request.				
62521634	34	0.807	20.5	502	62521204	4	0.425	10.8	160					
62521640	40	0.874	22.2	587	62521205	5	0.476	12.1	198					
62521641	41	0.874	22.2	593	62521207	7	0.528	13.4	261					
62521661	61	1.024	26.0	861										