

# HALOGEN-FREE CABLES



## SABIX® CC 625 SH FRNC M Control cable with numbered conductors, inner jacket and overall copper screen



Marking for SABIX® CC 625 SH FRNC M 62571612: SAB BRÖCKSKES · D-VIERSEN ·  
62571215 12 x 1,5 mm<sup>2</sup> SABIX® CC 625 SH FRNC M 16AWG/12c 62571612 AWM Style 21089 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 CE

SABIX® CC 625 SH FRNC M is multi-conductor, shielded, flexible control cable with a smaller OD for tighter installations. It is designed for use in all electrical equipment in dry, damp, and wet conditions. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. Recommended applications include machine tools, assembly lines, control systems, data processing equipment, connections between control panels and machines, CNC machining centers, grinding machines and bottling equipment. 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>Inner jacket:</b>	FRNC
<b>Screen:</b>	tinned copper braiding
<b>Jacket material:</b>	FRNC
<b>Jacket color:</b>	gray

### Outstanding features:

- halogen-free
- UL recognized, CSA approved
- no flame propagation
- good EMC characteristics\*
- flame retardant and self-extinguishing
- flexible

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

### 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 conductor/screen 1000 V
<b>Min. bending radius</b>	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
<b>Temperature range</b>	<b>DIN VDE:</b> -40/+90 °C <b>UL:</b> up to +75 °C <b>CSA:</b> up to +80 °C
<i>static:</i>	
<i>flexing:</i>	-30/+90 °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- $\phi$ inch	nominal outer- $\phi$ mm	cable weight $\approx$ lbs/mft	item no.	no. of conductors	nominal outer- $\phi$ inch	nominal outer- $\phi$ mm	cable weight $\approx$ lbs/mft	item no.	no. of conductors	nominal outer- $\phi$ inch	nominal outer- $\phi$ mm	cable weight $\approx$ lbs/mft
<b>▶ 20 AWG (<math>\approx</math> 16/32) • 0.50 mm<sup>2</sup></b>					<b>▶ 19 AWG (<math>\approx</math> 23/32) • 0.75 mm<sup>2</sup></b>					<b>▶ 18 AWG (<math>\approx</math> 30/32) • 1.00 mm<sup>2</sup></b>				
62572002	2	0.276	7.0	50	62571902	2	0.299	7.6	58	62571802	2	0.307	7.8	63
62572003	3	0.287	7.3	55	62571903	3	0.311	7.9	65	62571803	3	0.323	8.2	73
62572004	4	0.307	7.8	64	62571904	4	0.331	8.4	76	62571804	4	0.350	8.9	87
62572005	5	0.331	8.4	74	62571905	5	0.366	9.3	90	62571805	5	0.374	9.5	100
62572007	7	0.358	9.1	90	62571907	7	0.390	9.9	108	62571807	7	0.409	10.4	123
62572008	8	0.409	10.4	110	62571908	8	0.453	11.5	140	62571808	8	0.480	12.2	162
62572009	9	0.437	11.1	127	62571909	9	0.484	12.3	155	62571809	9	0.508	12.9	177
62572010	10	0.445	11.3	132	62571910	10	0.500	12.7	164	62571810	10	0.524	13.3	186
62572012	12	0.453	11.5	143	62571912	12	0.512	13.0	179	62571812	12	0.535	13.6	204
62572014	14	0.488	12.4	164	62571914	14	0.539	13.7	200	62571814	14	0.555	14.1	226
62572016	16	0.508	12.9	180	62571916	16	0.563	14.3	220	62571818	18	0.622	15.8	289
62572018	18	0.539	13.7	199	62571918	18	0.594	15.1	243	62571825	25	0.740	18.8	384
62572025	25	0.642	16.3	275	62571925	25	0.709	18.0	335	62571830	30	0.772	19.6	442
62572030	30	0.657	16.7	303	62571930	30	0.736	18.7	378	62571834	34	0.827	21.0	492
62572034	34	0.709	18.0	343	62571934	34	0.791	20.1	427	62571840	40	0.886	22.5	568
62572040	40	0.768	19.5	405	62571940	40	0.850	21.6	494	62571841	41	0.886	22.5	576
62572041	41	0.768	19.5	409	62571941	41	0.850	21.6	501	62571861	61	1.035	26.3	800
62572061	61	0.878	22.3	546	62571961	61	0.992	25.2	691					

Continued on next page

# HALOGEN-FREE CABLES

## SABIX® CC 625 SH FRNC M Control cable with numbered conductors, inner jacket and overall copper screen



Marking for SABIX® CC 625 SH FRNC M 62571612: SAB BRÖCKSKES · D-VIERSEN · 62571215 12 x 1,5 mm<sup>2</sup> SABIX® CC 625 SH FRNC M 16AWG/12c 62571612 AWM Style 21089 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 CE

SABIX® CC 625 SH FRNC M is multi-conductor, shielded, flexible control cable with a smaller OD for tighter installations. It is designed for use in all electrical equipment in dry, damp, and wet conditions. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed. Recommended applications include machine tools, assembly lines, control systems, data processing equipment, connections between control panels and machines, CNC machining centers, grinding machines and bottling equipment. 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>Inner jacket:</b>	FRNC
<b>Screen:</b>	tinned copper braiding
<b>Jacket material:</b>	FRNC
<b>Jacket color:</b>	gray

### Outstanding features:

- halogen-free
- UL recognized, CSA approved
- no flame propagation
- good EMC characteristics\*
- flame retardant and self-extinguishing
- flexible

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

### 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 conductor/screen 1000 V
<b>Min. bending radius</b>	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
<b>Temperature range</b>	<b>DIN VDE:</b> -40/+90 °C <b>flexing:</b> -30/+90 °C
<b>Zero halogen:</b>	UL: up to +75 °C <b>CSA:</b> up to +80 °C
<b>Burning characteristics:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1 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
▶ 16 AWG (≈ 27-29/30) • 1.50 mm <sup>2</sup>				
62571602	2	0.331	8.4	75
62571603	3	0.354	9.0	91
62571604	4	0.378	9.6	106
62571605	5	0.421	10.7	134
62571607	7	0.453	11.5	163
62571608	8	0.531	13.5	202
62571609	9	0.559	14.2	222
62571610	10	0.579	14.7	235
62571612	12	0.591	15.0	259
62571614	14	0.622	15.8	300
62571618	18	0.697	17.7	374
62571625	25	0.831	21.1	503
62571630	30	0.854	21.7	570
62571634	34	0.925	23.5	644
62571640	40	1.000	25.4	751
62571641	41	1.000	25.4	757
62571661	61	1.157	29.4	1058

item no.	no. of conductors	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft
▶ 14 AWG (≈ 46/30) • 2.50 mm <sup>2</sup>				
62571402	2	0.386	9.8	106
62571403	3	0.421	10.7	136
62571404	4	0.449	11.4	160
62571405	5	0.500	12.7	195
62571407	7	0.543	13.8	240
62571408	8	0.638	16.2	305
62571409	9	0.673	17.1	335
62571410	10	0.693	17.6	355
62571412	12	0.720	18.3	401
62571418	18	0.835	21.2	552
62571425	25	1.004	25.5	749
▶ 12 AWG (≈ 52/28) • 4.00 mm <sup>2</sup>				
62571203	3	0.484	12.3	153
62571204	4	0.528	13.4	226
62571205	5	0.579	14.7	272
62571207	7	0.638	16.2	353

item no.	no. of conductors	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft
▶ 10 AWG (≈ 78/28) • 6.00 mm <sup>2</sup>				
62571003	3	0.551	14.0	253
62571004	4	0.610	15.5	321
62571005	5	0.669	17.0	386
▶ 8 AWG (≈ 77/26) • 10.00 mm <sup>2</sup>				
62570804	4	0.795	20.2	532
62570805	5	0.878	22.3	645
▶ 6 AWG (≈ 122/26) • 16.00 mm <sup>2</sup>				
62570604	4	0.957	24.3	769
▶ 4 AWG (≈ 190/26) • 25.00 mm <sup>2</sup>				
62570404	4	1.169	29.7	1181
▶ 2 AWG (≈ 272/26) • 35.00 mm <sup>2</sup>				
62570204	4	1.331	33.8	1585

Other dimensions and colors are possible on request.