

HALOGEN-FREE CABLES



SABIX® CC 625 S FRNC M Control cable with numbered conductors and overall copper screen



Marking for SABIX® CC 625 S FRNC M 62341612: SAB BRÖCKSKES · D-VIERSEN ·
62341215 12 x 1,5 mm² SABIX® CC 625 S FRNC M 16 AWG/12c 62341612 AWM Style 21089 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

SABIX® CC 625 S 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:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	SABIX® 231
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	in layers
Wrapping:	PETP foil
Screen:	tinned copper braiding
Jacket material:	SABIX® 231
Jacket color:	gray

Outstanding features:

- halogen-free
- UL/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:

Nominal voltage:	UL/CSA: 600 V DIN VDE: U _o /U 300/500 V
Testing voltage:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 1000 V
Min. bending radius <i>fixed installation:</i> <i>free movement:</i>	5 x O.D. 10 x O.D.
Temperature range <i>static:</i> <i>flexing:</i>	DIN VDE: -40/+90 °C UL: up to +75 °C CSA: up to +80 °C -30/+90 °C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	no flame propagation acc. to IEC 60332 + EN 50266 cat. C resp. D. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2, CSA FT1 FT2
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-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25

item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (17/32) • 0.50 mm ²				
62342002	2	0.224	5.7	30
62342003	3	0.236	6.0	36
62342004	4	0.252	6.4	43
62342005	5	0.276	7.0	51
62342007	7	0.299	7.6	65
62342008	8	0.350	8.9	81
62342009	9	0.370	9.4	88
62342010	10	0.378	9.6	91
62342012	12	0.386	9.8	102
62342014	14	0.421	10.7	126
62342016	16	0.441	11.2	138
62342018	18	0.472	12.0	157
62342025	25	0.543	13.8	206
62342030	30	0.591	15.0	243
62342034	34	0.642	16.3	288
62342040	40	0.693	17.6	338
62342041	41	0.693	17.6	345
62342061	61	0.795	20.2	466

item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 19 AWG (23/32) • 0.75 mm ²				
62341902	2	0.244	6.2	35
62341903	3	0.256	6.5	43
62341904	4	0.276	7.0	52
62341905	5	0.307	7.8	63
62341907	7	0.331	8.4	79
62341908	8	0.386	9.8	97
62341909	9	0.425	10.8	122
62341910	10	0.433	11.0	122
62341912	12	0.445	11.3	139
62341914	14	0.472	12.0	158
62341916	16	0.496	12.6	174
62341918	18	0.520	13.2	192
62341925	25	0.642	16.3	280
62341930	30	0.661	16.8	314
62341934	34	0.717	18.2	359
62341940	40	0.776	19.7	420
62341941	41	0.776	19.7	427
62341961	61	0.902	22.9	591

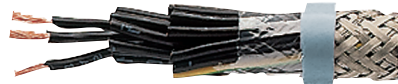
item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 18 AWG (30/32) • 1.00 mm ²				
62341802	2	0.252	6.4	39
62341803	3	0.268	6.8	49
62341804	4	0.287	7.3	58
62341805	5	0.315	8.0	72
62341807	7	0.350	8.9	93
62341808	8	0.398	10.1	111
62341809	9	0.441	11.2	134
62341810	10	0.449	11.4	141
62341812	12	0.469	11.9	162
62341814	14	0.488	12.4	180
62341818	18	0.547	13.9	228
62341825	25	0.665	16.9	325
62341830	30	0.697	17.7	374
62341834	34	0.752	19.1	423
62341840	40	0.811	20.6	491
62341841	41	0.811	20.6	499
62341861	61	0.945	24.0	700

Continued on next page

K
22

HALOGEN-FREE CABLES

SABIX® CC 625 S FRNC M Control cable with numbered conductors and overall copper screen



75°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2

Marking for SABIX® CC 625 S FRNC M 62341612: SAB BRÖCKSKES · D-VIERSEN · 62341215 12 x 1,5 mm² SABIX® CC 625 S FRNC M 16 AWG/12c 62341612 AWM Style 21089 75°C 600V CSA AWM I/II A/B 80°C 600V FT1 FT2 CE

SABIX® CC 625 S 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:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	SABIX® 231
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	in layers
Wrapping:	PETP foil
Screen:	tinned copper braiding
Jacket material:	SABIX® 231
Jacket color:	gray

Outstanding features:

- ▶ halogen-free
- ▶ UL/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:

Nominal voltage:	UL/CSA: 600 V DIN VDE: U _o /U 300/500 V
Testing voltage:	3000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 1000 V
Min. bending radius	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
Temperature range	DIN VDE: UL: up to +75 °C CSA: up to +80 °C
<i>static:</i>	-40/+90 °C
<i>flexing:</i>	-30/+90 °C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	no flame propagation acc. to IEC 60332 + EN 50266 cat. C resp. D. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2, CSA FT1 FT2
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-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25

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 ²				
62341602	2	0.276	7.0	48
62341603	3	0.295	7.5	62
62341604	4	0.319	8.1	76
62341605	5	0.354	9.0	93
62341607	7	0.386	9.8	120
62341608	8	0.465	11.8	159
62341609	9	0.492	12.5	174
62341610	10	0.504	12.8	183
62341612	12	0.524	13.3	210
62341614	14	0.547	13.9	238
62341618	18	0.622	15.8	312
62341625	25	0.756	19.2	433
62341630	30	0.780	19.8	493
62341634	34	0.843	21.4	561
62341640	40	0.909	23.1	647
62341641	41	0.909	23.1	653
62341661	61	1.067	27.1	943

item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 14 AWG (46/36) • 2.50 mm ²				
62341402	2	0.327	8.3	68
62341403	3	0.354	9.0	91
62341404	4	0.382	9.7	113
62341405	5	0.433	11.0	148
62341407	7	0.476	12.1	192
62341408	8	0.555	14.1	233
62341409	9	0.598	15.2	259
62341410	10	0.618	15.7	288
62341412	12	0.646	16.4	331
62341418	18	0.760	19.3	478
62341425	25	0.921	23.4	648
▶ 12 AWG (52/28) • 4.00 mm ²				
62341203	3	0.417	10.6	138
62341204	4	0.453	11.5	172
62341205	5	0.504	12.8	212
62341207	7	0.555	14.1	277

item no.	no. of conductors	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 10 AWG (78/28) • 6.00 mm ²				
62341003	3	0.484	12.3	191
62341004	4	0.535	13.6	243
62341005	5	0.594	15.1	302
▶ 8 AWG (77/26) • 10.00 mm ²				
62340804	4	0.720	18.3	427
62340805	5	0.795	20.2	526
▶ 6 AWG (119/26) • 16.00 mm ²				
62340604	4	0.874	22.2	623
▶ 4 AWG (196/26) • 25.00 mm ²				
62340404	4	1.079	27.4	974
▶ 2 AWG (280/26) • 35.00 mm ²				
62340204	4	1.232	31.3	1316

Other dimensions and colors are possible on request.

E-mail: info@sabcable.com



Web site: www.sabcable.com