

Halogen-free Cables

SABIX® S 712 FRNC C1

Continuous flex halogen-free shielded control cable with extended temperature range and higher fire protection



Marking for SABIX® S 712 C FRNC C1 67121215:

SAB BRÖCKSKES · D-VIERSEN · SABIX® S 712 C FRNC C1 12 x 1.5 mm² CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 6
Insulation:	SABIX®
Color code:	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
Stranding:	in layers
Wrapping:	non-woven tape
Shielding:	tinned copper braiding optical coverage ≥ 85%
Wrapping:	non-woven tape
Jacket material:	SABIX®
Jacket color:	black (RAL 9005)

Outstanding features:

- low smoke halogen-free (LSHF)
- continuous flex
- good EMC characteristics*
- no flame propagation
- flame retardant and self-extinguishing
- oil and fuel resistant
- good acid and alkalines resistance
- NF C 32-070 C1
- UV resistant jacket

*copper braiding should be connected circularly to optimize the EMC characteristics

Technical data:

Nominal voltage:	Uo/U 0.6/1 kV
Testing voltage:	conductor/conductor: 4000 V conductor/shielding: 4000 V
Min. bending radius:	<i>fixed installation:</i> 4 x O.D. <i>flexible application:</i> 6 x O.D. <i>continuous flex:</i> 15 x O.D.
Radiation resistance:	1 x 10 ⁷ cJ/kg (100 kGy)
Temperature range:	<i>static:</i> -40/+90°C <i>flexible:</i> -30/+90°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 + NF C 32-070 C1
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
Toxicity:	acc. to EN 50305
Oil and fuel resistance:	acc. to EN 50264-1 + VDE 0260-264-1
UV, ozone and weather resistance:	good
Mycological resistance:	good
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

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item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm²				
67120205	2	0.280	7.1	54
67120505	5	0.346	8.8	81
▶ 19 AWG (≈ 23/32) • 0.75 mm²				
67120507	5	0.378	9.6	99
67120707	7	0.449	11.4	142
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
67120510	5	0.386	9.8	109
67120710	7	0.480	12.2	168
67121210	12	0.563	14.3	226
67121810	18	0.669	17.0	330

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
67120215	2	0.350	8.9	88
67120315	3	0.374	9.5	100
67120415	4	0.413	10.5	129
67120515	5	0.472	12.0	165
67121215	12	0.657	16.7	319
67121815	18	0.772	19.6	444
67122515	25	0.909	23.1	581
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
67120225	2	0.429	10.9	135
67120325	3	0.453	11.5	153
67120425	4	0.504	12.8	193
67120525	5	0.559	14.2	233
67121225	12	0.795	20.2	468

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
▶ 12 AWG (≈ 224/34) • 4.00 mm²				
67120440	4	0.559	14.2	251
67120540	5	0.634	16.1	323
67120740	7	0.744	18.9	438
▶ 10 AWG (≈ 183/32) • 6.00 mm²				
67120260	2	0.551	14.0	228
67120460	4	0.654	16.6	345
▶ 6 AWG (≈ 504/32) • 16.00 mm²				
67120462	4	0.909	23.1	760
▶ 4 AWG (≈ 760/32) • 25.00 mm²				
67120463	4	1.071	27.2	1085
▶ 2 AWG (≈ 1083/32) • 35.00 mm²				
67120464	4	1.217	30.9	1459

Other dimensions and colors are available on request