

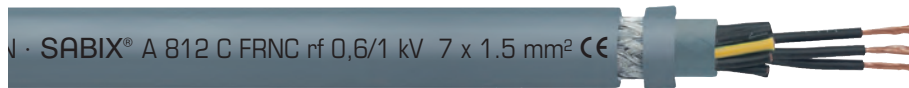
Halogen-free Cables

SABIX® A 812 C FRNC

Motor connection cable with numbered conductors, improved fire performance, inner jacket, overall tinned copper shield, and extended temperature range

0.6/1 kV

SAB Servo



Marking for SABIX® A 812 C FRNC 68120715:

SAB BRÖCKSKES · D-VIERSEN · SABIX® A 812 C FRNC rf 0.6/1 kV 7 x 1.5 mm² CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 5
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
Inner jacket:	SABIX®
Shielding:	tinned copper braiding
Jacket material:	SABIX®
Jacket color:	gray (RAL 7000)

Outstanding features:

- low smoke halogen-free (LSHF)
- good EMC characteristics*
- no flame propagation
- flame retardant and self-extinguishing

*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> 5 x O.D. <i>free movement:</i> 10 x O.D.
Temperature range:	<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, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

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				
68120315	3	0.445	11.3	136
68120415	4	0.472	12.0	152
68120715	7	0.543	13.8	210
▶ 14 AWG (≈ 46/30) ▪ 2.50 mm²				
68120325	3	0.496	12.6	173
68120425	4	0.531	13.5	200
68120525	5	0.591	15.0	251
68120725	7	0.638	16.2	294
▶ 12 AWG (≈ 52/28) ▪ 4.00 mm²				
68120440	4	0.642	16.3	305
68120740	7	0.709	18.0	396

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
▶ 10 AWG (≈ 78/28) ▪ 6.00 mm²				
68120360	3	0.594	15.1	286
68120460	4	0.657	16.7	347
68120760	7	0.783	19.9	522
▶ 8 AWG (≈ 77/26) ▪ 10.00 mm²				
68120370	3	0.764	19.4	413
68120470	4	0.827	21.0	501
68120570	5	0.898	22.8	615
68120770	7	0.988	25.1	775

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
▶ 6 AWG (≈ 122/26) ▪ 16.00 mm²				
68120380	3	0.882	22.4	556
68120480	4	0.972	24.7	709
68120580	5	1.063	27.0	867
68120780	7	1.169	29.7	1116
▶ 4 AWG (≈ 190/26) ▪ 25.00 mm²				
68120390	3	1.051	26.7	798
68120490	4	1.157	29.4	1015
68120590	5	1.272	32.3	1251

Other dimensions and colors are available on request