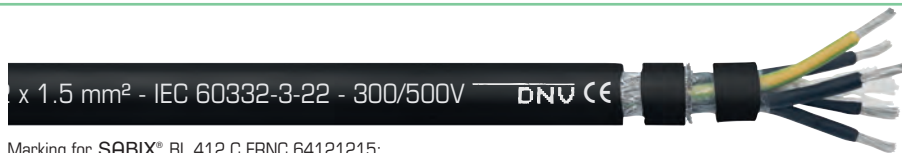


# Halogen-free Cables

## SABIX® BL 412 C FRNC

SABIX® BL - Flexible power cable with overall tinned copper shield 0.6/1 kV

0.6/1 kV



Marking for SABIX® BL 412 C FRNC 64121215:

SAB BRÖCKSKES · D-VIERSEN · SABIX® BL 412 C FRNC 12 x 1.5mm² - IEC 60332-3-22 - 0.6/1kV DNV CE and current meter marking

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, VDE 0295, class 5
<b>Insulation:</b>	special SABIX®
<b>Color code:</b>	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
<b>Stranding:</b>	in layers
<b>Shielding:</b>	tinned copper braiding
<b>Jacket material:</b>	special SABIX® SHF 1 compound acc. to IEC 60092-360
<b>Jacket color:</b>	black (RAL 9005)

### Outstanding features:

- low smoke halogen-free (LSHF)
- asbestos-free
- good EMC characteristics\*
- no flame propagation
- flame retardant and self-extinguishing
- flexible
- for applications  
acc. to Hong Kong Convention  
ingredients tested acc. to the requirements  
of the Hong Kong Convention (2009) of the IMO
- approvals:  
DNV

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

### Technical data:

<b>Nominal voltage:</b>	Uo/U 0.6/1 kV
<b>Testing voltage:</b>	conductor/conductor: 4000 V conductor/shielding: 4000 V
<b>Min. bending radius:</b>	<i>fixed installation:</i> 4 x O.D. <i>free movement:</i> 6 x O.D.
<b>Temperature range:</b>	<i>static:</i> -40/+90°C <i>flexible:</i> -30/+90°C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1
<b>Burning characteristics:</b>	no flame propagation acc. to IEC 60332-3-22 + VDE 0482-332-3-22 cat. A. Flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
<b>Corrosivity:</b>	in compliance with IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + VDE 0482-1034
<b>Flexibility:</b>	very good
<b>Approvals:</b>	DNV, CE, EAC, RoHS
<b>Absence of harmful substances:</b>	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
<b>▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm²</b>				
64120215	2	0.370	9.4	83
64120315	3	0.390	9.9	94
64120415	4	0.429	10.9	122
64120515	5	0.476	12.1	152
64120715	7	0.516	13.1	185
64121015	10	0.669	17.0	280
64121215	12	0.689	17.5	312
64121415	14	0.720	18.3	347
64121815	18	0.803	20.4	439
<b>▶ 14 AWG (≈ 46/30) ▪ 2.50 mm²</b>				
64120225	2	0.402	10.2	104
64120325	3	0.433	11.0	128
64120425	4	0.476	12.1	159
64120525	5	0.520	13.2	192
64120725	7	0.579	14.7	253
64121025	10	0.732	18.6	353
64121225	12	0.752	19.1	403
64121425	14	0.795	20.2	459
64121825	18	0.890	22.6	581

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
<b>▶ 12 AWG (≈ 52/28) ▪ 4.00 mm²</b>				
64120240	2	0.496	12.6	160
64120340	3	0.524	13.3	186
64120440	4	0.587	14.9	243
64120540	5	0.642	16.3	298
64120740	7	0.705	17.9	380
<b>▶ 10 AWG (≈ 78/28) ▪ 6.00 mm²</b>				
64120260	2	0.543	13.8	204
64120360	3	0.583	14.8	247
64120460	4	0.634	16.1	313
64120560	5	0.705	17.9	381
64120760	7	0.772	19.6	486
<b>▶ 8 AWG (≈ 77/26) ▪ 10.00 mm²</b>				
64120361	3	0.697	17.7	364
64120461	4	0.768	19.5	492
64120561	5	0.843	21.4	573

item no.	no. of conductors incl. ground	nominal outer-ø inch ±5%	mm ±5%	cable weight ≈lbs/mft
<b>▶ 6 AWG (≈ 122/26) ▪ 16.00 mm²</b>				
64120362	3	0.823	20.9	516
64120462	4	0.906	23.0	667
64120562	5	1.008	25.6	827
<b>▶ 4 AWG (≈ 190/26) ▪ 25.00 mm²</b>				
64120363	3	0.992	25.2	757
64120463	4	1.094	27.8	984
64120563	5	1.213	30.8	1213
<b>▶ 2 AWG (≈ 272/26) ▪ 35.00 mm²</b>				
64120364	3	1.118	28.4	1013
64120464	4	1.232	31.3	1329
<b>▶ 1 AWG (≈ 400/26) ▪ 50.00 mm²</b>				
64120365	3	1.260	32.0	1370
64120465	4	1.386	35.2	1799

Other dimensions and colors are available on request

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#### Possible on request:

- bare copper strands
- alternative color code and jacket color

