

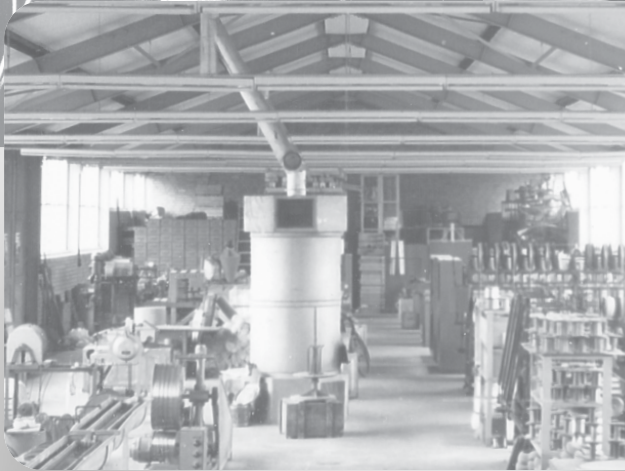
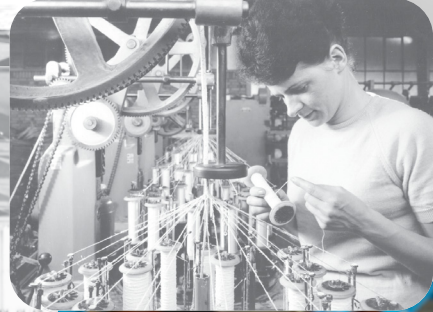
C1

FLEXIBLE CABLES



www.sab-cable.com





TRADITIONAL
FAMILY BUSINESS
SINCE 1947

C1 - flexible Cables

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C1 - flexible Cables

Who we are - a survey

70 years of experience in temperature measurement and control technique as well as in cable production have made a one man business a company with nearly 500 staff members. Our strength is not only the production of standard products but also the development and manufacturing of special products acc. to customers' specifications. Every year we manufacture more than 1500 special products on our customers' request. Every single product is a challenge for our technical team. We at **SAB BRÖCKSKES** see ourselves as manufacturer and service provider - in the sense of real partnership and customer oriented work.

The quality of our products is known in more than 40 countries worldwide. Our customers have tested our products intensively and confirm that they have a longer service life than others. In all product ranges we are certified acc. to ISO 9001:2015. Besides we established an environmental management system for our company acc. to ISO 14001:2015, an occupational health and safety management acc. to NLF/ILO-OSH 2001 and OHSAS 18001:2007 as well as an energy management system acc. to DIN EN ISO 50001:2011. And our future slogan is:

WE GO FORWARD!

FOUNDED:	1947 by Peter Bröckskes sen. an independent, medium-sized company.
CEO:	Peter Bröckskes and Sabine Bröckskes-Wetten
PLANT/LOCATION:	In Viersen (Lower Rhine) 110.000 m ² company site. Own manufacturing from copper conductor to outer sheath. VDE proved burnchamber and laboratory within the company.
EMPLOYEES/WORKERS:	Approx. 420 at the plant in Viersen, 500 worldwide
YEARLY SALES:	Approx. 95 Mio. € worldwide
PRODUCTS:	Special Cables Temperature Measurement Cable Harnessing

CERTIFICATES AND APPROVALS:



Quality management system acc. to ISO 9001:2015
for every manufacturing field

Environmental management system acc. to ISO 14001:2015

Occupational health and safety management
acc. to NLF/ILO-OSH 2001 and OHSAS 18001:2007

Energy management system acc. to DIN EN ISO 50001:2011

Continuously flexible with highest fire protection



SABIX® Ultra

Fire protection has never been so flexible

- fire protection
- halogen-free
- flexibility
- oil resistance

These are the characteristics united by our new product range SABIX® Ultra. Due to the new sheath material the cable can be used for flexible applications and shows the highest fire protection features such as EN 60332-3 Cat C resp. D

respectively the French standard NF C 32-070 C1.

The cables are used for example as festoon cable for polar cranes in nuclear power plants. In rail technology these cables are used as sensor cable or as flexible control cable at the train doors. Due to the very good oil and fuel resistance the use in industrial environments is also recommended. The new SABIX® Ultra material can even be used for cable chain applications with moderate mechanical stress.

Standards:

- EN 60332-1-2
- EN 60332-3 Kat. Cat C resp. D
- IEC 60754-1 (halogen-free)
- IEC 60754-2 + EN 50267-2-2 (corrosivity of gases)
- EN 61034 (smoke density)
- NF C 32-070 C1 (fire performance acc. to French standard)
- NF X 70-100 (toxicity acc. to French standard)



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Liège, 12 September 2012.

TEST REPORT

Nr 3189/2012

NF C 32-070 Janvier 2001	NORME FRANÇAISE ENREGISTRÉE Essais de classification des conducteurs et câbles du point de vue de leur comportement au feu Essai de vérification effectué sur des conducteurs et câbles de la catégorie C1 Cables of category C1
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1. Tests applied for by: Mrs N. Lütke-meier for SAB Bröckskes GmbH & Co. KG, Grefrather Str. 204-212b, D-41749 Viersen, Deutschland.
2. Type of cable (*: information given by the sponsor):
ISSEP nr: LCF/EE/12/66/1.
Cable marking: SAB BROCKSKES D-VIERSEN SABIX R 691 FRNC cat 6 4x2x26 AWG CE.
*Reference: SABIX R 691 FRNC Cat 6 4x2x26 AWG – Art. Nr L6691-2604 – BA nr 199714.
Diameter: ~ 9.4 mm.
Colour: green.
Date of samples reception: 16 July 2012.
Compliance with the C2 category requirements acc. to NF C32-070: yes, checked by ourselves.
- 3 Sampling: not carried out by the laboratory.
- 4 Procedure: refer to § 2.2.7 of NF C 32-070 (2001) standard
Number of 1.6 m long cables lengths for each test: 12.
- 5 Date of the test: 20 July 2012



Continuously flexible with highest fire protection



SABIX® SD 705 FRNC C1

continuously flexible data cable with improved fire performance



ERSEN · SABIX® SD 705 FRNC C1 2 x 0,25 mm² CE



Marking for SABIX® SD 705 FRNC C1 67050225:

SAB BRÜCKSKES · D-VIERSEN · SABIX® SD 705 FRNC C1 2 x 0,25 mm² CE

Application: For flexible applications in areas with highest fire protection requirements e.g. power plant technology, railway applications.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	SABIX®
Colour code:	with reference to DIN 47100
Stranding:	in layers
Wrapping:	non-woven tape
Sheath material:	SABIX®
Sheath colour:	black (RAL 9005)

Outstanding features:



- halogen-free
- continuously flexible
- no flame propagation
- flame retardant and self-extinguishing
- oil and fuel resistant
- good acid and alkalines resistance
- NF C 32-070 C1

Technical Data:

Peak operating voltage:	< 0,25 mm ² = max. 350 V ≥ 0,25 mm ² = max. 500 V
Testing voltage:	core/core 1500 V
Min. bending radius	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<i>continuously flexible:</i>	15 x d
Radiation resistance:	1 x 10 ⁷ cJ/kg (100 kGy)
Temperature range	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Fire performance:	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
Corrosiveness of conflagration gases:	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 NF X 70-100
Oil and fuel resistance:	acc. to EN 50264-1 + VDE 0260-264-1
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67050214	2 x 0,14	0,11	3,2	2,7	14
67050314	3 x 0,14	0,11	3,4	4,0	17
67050514	5 x 0,14	0,11	3,9	6,7	24
67050714	7 x 0,14	0,11	4,5	9,4	32
67050225	2 x 0,25	0,11	3,5	4,8	18
67050325	3 x 0,25	0,11	3,7	7,2	21
67050425	4 x 0,25	0,11	4,0	9,6	26
67051025	10 x 0,25	0,11	6,1	24,0	60
67051225	12 x 0,25	0,11	6,3	28,8	64
67051425	14 x 0,25	0,11	6,6	33,6	72
67051825	18 x 0,25	0,11	7,3	43,2	90
67052525	25 x 0,25	0,11	8,7	60,0	117
67050234	2 x 0,34	0,11	4,1	6,5	24
67050534	5 x 0,34	0,11	5,3	16,3	43
67050734	7 x 0,34	0,11	6,3	22,8	62
67051034	10 x 0,34	0,11	7,3	32,6	76
67052534	25 x 0,34	0,11	11,1	81,6	180

Other dimensions and colours are possible on request.

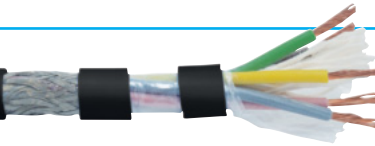
Continuously flexible with highest fire protection



SABIX® SD 715 C FRNC C1

continuously flexible data cable with improved fire performance and overall copper screen

SABIX® SD 715 C FRNC C1 7 x 0,25 mm² CE



Marking for SABIX® SD 715 C FRNC C1 6715725:

SAB BRÜCKSKES · D-VIERSEN · SABIX® SD 715 C FRNC C1 7 x 0,25 mm² CE

Application: For flexible applications in areas with highest fire protection requirements e.g. power plant technology, railway applications.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	SABIX®
Colour code:	with reference to DIN 47100
Stranding:	in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding, optical coverage ≥ 85%
Wrapping:	non-woven tape
Sheath material:	SABIX®
Sheath colour:	black (RAL 9005)

Outstanding features:



- halogen-free
- continuously flexible
- 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

Technical Data:

Peak operating voltage:	< 0,25 mm ² = max. 350 V ≥ 0,25 mm ² = max. 500 V
Testing voltage:	core/core 1500 V core/screen 1200 V
Min. bending radius	
fixed laying:	4 x d
flexible application:	6 x d
continuously flexible:	15 x d
Radiation resistance:	1 x 10 ⁷ cJ/kg (100 kGy)
Temperature range	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Fire performance:	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
Corrosiveness of conflagration gases:	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 NF X 70-100
Oil and fuel resistance:	acc. to EN 50264-1 + VDE 0260-264-1
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67150214	2 x 0,14	0,11	3,7	13,5	22
67150314	3 x 0,14	0,11	3,9	15,0	25
67151214	12 x 0,14	0,11	6,9	38,3	69
67151814	18 x 0,14	0,11	7,4	49,4	88
67152514	25 x 0,14	0,11	8,9	62,8	119
67150225	2 x 0,25	0,11	4,0	15,8	25
67150425	4 x 0,25	0,11	4,5	24,7	36
67150525	5 x 0,25	0,11	5,2	27,6	46
67150625	6 x 0,25	0,11	6,2	33,0	63
67150725	7 x 0,25	0,11	6,6	38,1	72
67150825	8 x 0,25	0,11	7,1	41,6	81
67151225	12 x 0,25	0,11	7,8	54,6	96
67151825	18 x 0,25	0,11	9,6	89,7	153

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67152525	25 x 0,25	0,11	9,9	110,4	183
67150434	4 x 0,34	0,11	5,4	28,9	48
67150534	5 x 0,34	0,11	6,2	35,7	63
67150734	7 x 0,34	0,11	7,0	45,1	81
67151234	12 x 0,34	0,11	8,5	65,0	117
67150250	2 x 0,50	0,11	5,2	25,2	43
67150350	3 x 0,50	0,11	5,4	30,3	49
67150450	4 x 0,50	0,11	6,1	38,5	63
67150550	5 x 0,50	0,11	6,6	45,3	75
67150475	4 x 0,75	0,11	6,8	50,8	79
67150575	5 x 0,75	0,11	7,4	57,7	94
67150775	7 x 0,75	0,11	9,2	79,9	141
67150785	7 x 1,50	0,11	10,6	153,3	218

Other dimensions and colours are possible on request.

Continuously flexible with highest fire protection



SABIX® SD 745 C FRNC C1 TP

paired, continuously flexible data cable with improved fire performance and overall copper screen



Marking for SABIX® SD 745 C FRNC C1 TP 67450250:

SAB BRÜCKSKES · D-VIERSEN · SABIX® SD 745 C FRNC C1 TP 2 x 2 x 0,50 mm² CE

Application: For flexible applications in areas with highest fire protection requirements e.g. power plant technology, railway applications.

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	SABIX®
Colour code:	with reference to DIN 47100
Stranding:	pairwise, pairs in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding, optical coverage ≥ 85%
Wrapping:	non-woven tape
Sheath material:	SABIX®
Sheath colour:	black (RAL 9005)

Outstanding features:



- halogen-free
- continuously flexible
- 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

Technical Data:

Peak operating voltage:	< 0,25 mm² = max. 350 V ≥ 0,25 mm² = max. 500 V
Testing voltage:	core/core 1500 V core/screen 1200 V
Min. bending radius	
fixed laying:	4 x d
flexible application:	6 x d
continuously flexible:	15 x d
Radiation resistance:	1 x 10 ⁷ cJ/kg (100 kGy)
Temperature range	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Fire performance:	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
Corrosiveness of conflagration gases:	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 NF X 70-100
Oil and fuel resistance:	acc. to EN 50264-1 + VDE 0260-264-1
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of pairs x cross section n x 2 x mm ²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
67450214	2 x 2 x 0,14	0,11	4,9	18,6	37
67450414	4 x 2 x 0,14	0,11	6,2	27,5	55
67450514	5 x 2 x 0,14	0,11	6,7	32,4	65
67450614	6 x 2 x 0,14	0,11	6,9	35,3	72
67451014	10 x 2 x 0,14	0,11	8,7	52,0	106
67451414	14 x 2 x 0,14	0,11	10,2	83,4	148
67450225	2 x 2 x 0,25	0,11	5,4	23,3	45
67450425	4 x 2 x 0,25	0,11	6,9	38,4	69
67450625	6 x 2 x 0,25	0,11	7,6	50,0	91
67450725	7 x 2 x 0,25	0,11	7,9	53,4	103
67450825	8 x 2 x 0,25	0,11	9,3	63,9	133
67451025	10 x 2 x 0,25	0,11	9,8	88,3	147
67451225	12 x 2 x 0,25	0,11	10,7	105,5	172
67451425	14 x 2 x 0,25	0,11	11,3	118,1	191
67451625	16 x 2 x 0,25	0,11	11,7	122,5	205
67450234	2 x 2 x 0,34	0,11	6,5	30,3	64

item no.	no. of pairs x cross section n x 2 x mm ²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
67450634	6 x 2 x 0,34	0,11	9,6	57,4	128
67450734	7 x 2 x 0,34	0,11	10,0	87,6	159
67451034	10 x 2 x 0,34	0,11	11,6	110,9	191
67451834	18 x 2 x 0,34	0,11	15,1	212,8	348
67451934	19 x 2 x 0,34	0,11	14,9	175,3	330
67452734	27 x 2 x 0,34	0,11	17,9	286,4	479
67450250	2 x 2 x 0,50	0,11	7,1	38,6	74
67450350	3 x 2 x 0,50	0,11	7,8	51,0	90
67450450	4 x 2 x 0,50	0,11	9,3	64,1	119
67451050	10 x 2 x 0,50	0,11	13,3	155,1	263
67451850	18 x 2 x 0,50	0,11	17,1	279,3	447
67452550	25 x 2 x 0,50	0,11	19,4	358,2	568
67450275	2 x 2 x 0,75	0,11	8,0	51,3	92
67450475	4 x 2 x 0,75	0,11	10,8	103,4	171
67450875	8 x 2 x 0,75	0,11	15,0	186,4	335
67451075	10 x 2 x 0,75	0,11	15,3	237,0	361

Other dimensions and colours are possible on request.

Continuously flexible with highest fire protection



SABIX® S 710 FRNC C1

continuously flexible control cable with improved fire performance



Marking for SABIX® S 710 FRNC C1 67100415:
SAB BRÜCKSKES · D-VIERSEN · SABIX® S 710 FRNC C1 4 x 1,5 mm² CE

Application: For flexible applications in areas with highest fire protection requirements e.g. power plant technology, railway applications.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 6
Insulation:	SABIX®
Colour code:	black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, green-yellow earth wire from 3 cores
Stranding:	in layers
Wrapping:	non-woven tape
Sheath material:	SABIX®
Sheath colour:	black (RAL 9005)

Outstanding features:



- halogen-free
- continuously flexible
- no flame propagation
- flame retardant and self-extinguishing
- oil and fuel resistant
- good acid and alkalines resistance
- NF C 32-070 C1

Technical Data:

Nominal voltage:	Uo/U 0,6/1 kV
Testing voltage:	core/core 4000 V
Min. bending radius	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<i>continuously flexible:</i>	15 x d
Radiation resistance:	1 x 10 ⁷ cJ/kg (100 kGy)
Temperature range	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Fire performance:	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
Corrosiveness of conflagration gases:	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 NF X 70-100
Oil and fuel resistance:	acc. to EN 50264-1 + VDE 0260-264-1
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67100205	2 x 0,50	0,16	6,4	9,6	62
67100505	5 x 0,50	0,16	8,2	24,0	97
67100507	5 x 0,75	0,16	9,0	36,0	121
67100707	7 x 0,75	0,16	10,7	50,4	170
67100310	3 x 1,00	0,16	7,9	28,8	92
67100510	5 x 1,00	0,16	9,3	48,0	137
67100710	7 x 1,00	0,16	11,1	67,2	193
67101210	12 x 1,00	0,16	13,6	115,2	284
67101810	18 x 1,00	0,16	16,1	172,8	406
67100215	2 x 1,50	0,16	8,6	28,8	112
67100315	3 x 1,50	0,16	9,2	43,2	127
67100415	4 x 1,50	0,16	9,7	57,6	151
67100515	5 x 1,50	0,16	10,9	72,0	189
67100715	7 x 1,50	0,16	13,1	100,8	276

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67101215	12 x 1,50	0,16	15,8	172,8	390
67101815	18 x 1,50	0,16	18,7	259,2	562
67102415	24 x 1,50	0,16	21,8	345,6	721
67102515	25 x 1,50	0,16	22,1	360,0	735
67100325	3 x 2,50	0,16	10,8	72,0	183
67100425	4 x 2,50	0,16	12,1	69,0	240
67100525	5 x 2,50	0,16	13,5	120,0	294
67100725	7 x 2,50	0,16	15,8	168,0	408
67101225	12 x 2,50	0,16	19,2	288,0	584
67100440	4 x 4,00	0,16	13,5	153,6	321
67100460	4 x 6,00	0,21	15,4	230,4	427
67100461	4 x 10,0	0,21	19,2	384,0	769
67100462	4 x 16,0	0,21	22,1	614,4	1005
67100465	4 x 50,0	0,31	35,9	1920,0	2747

Other dimensions and colours are possible on request.

Continuously flexible with highest fire protection



SABIX® S 712 C FRNC C1

continuously flexible control cable with improved fire performance and overall copper screen



Marking for SABIX® S 712 C FRNC C1 67120315:

SAB BRÜCKSKES · D-VIERSEN · SABIX® S 712 C FRNC C1 3 x 1,5 mm² CE

Application: For flexible applications in areas with highest fire protection requirements e.g. power plant technology, railway applications.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 6
Insulation:	SABIX®
Colour code:	black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, green-yellow earth wire from 3 cores
Stranding:	in layers
Wrapping:	non-woven tape
Screen:	tinned copper braiding, optical coverage ≥ 85%
Wrapping:	non-woven tape
Sheath material:	SABIX®
Sheath colour:	black (RAL 9005)

Outstanding features:



- halogen-free
- continuously flexible
- 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

Technical Data:

Nominal voltage:	Uo/U 0,6/1 kV
Testing voltage:	core/core 4000 V core/screen 4000 V
Min. bending radius	
fixed laying:	4 x d
flexible application:	6 x d
continuously flexible:	15 x d
Radiation resistance:	1 x 10 ⁷ cJ/kg (100 kGy)
Temperature range	
fixed laying:	-40/+90 °C
flexible application:	-30/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Fire performance:	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
Corrosiveness of conflagration gases:	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 NF X 70-100
Oil and fuel resistance:	acc. to EN 50264-1 + VDE 0260-264-1
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67120205	2 x 0,50	0,16	7,1	29,2	80
67120505	5 x 0,50	0,16	8,8	49,9	121
67120507	5 x 0,75	0,16	9,6	65,4	147
67120707	7 x 0,75	0,16	11,4	103,2	212
67120510	5 x 1,00	0,16	9,8	77,6	162
67120710	7 x 1,00	0,16	12,2	123,6	250
67121210	12 x 1,00	0,16	14,3	184,0	337
67121810	18 x 1,00	0,16	17,0	285,9	491
67120215	2 x 1,50	0,16	8,9	55,7	131
67120315	3 x 1,50	0,16	9,5	72,5	149
67120415	4 x 1,50	0,16	10,5	105,7	192
67120515	5 x 1,50	0,16	12,0	127,9	246
67121215	12 x 1,50	0,16	16,7	285,0	475
67121815	18 x 1,50	0,16	19,6	391,5	661

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67122515	25 x 1,50	0,16	23,1	527,6	865
67120225	2 x 2,50	0,16	10,9	101,0	201
67120325	3 x 2,50	0,16	11,5	127,7	227
67120425	4 x 2,50	0,16	12,8	155,5	287
67120525	5 x 2,50	0,16	14,2	188,6	347
67121225	12 x 2,50	0,16	20,2	431,5	696
67120440	4 x 4,00	0,16	14,2	222,2	374
67120540	5 x 4,00	0,16	16,1	302,5	481
67120740	7 x 4,00	0,16	18,9	395,6	652
67120260	2 x 6,00	0,21	14,0	183,4	340
67120460	4 x 6,00	0,21	16,6	339,6	513
67120462	4 x 16,0	0,21	23,1	775,6	1131
67120463	4 x 25,0	0,21	27,2	1127,0	1615
67120464	4 x 35,0	0,21	30,9	1541,2	2171

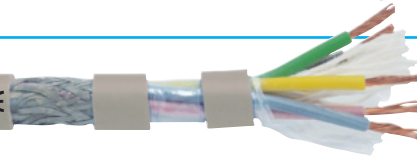
Other dimensions and colours are possible on request.

SABIX® D 320 FRNC C1

flexible data cable with improved fire performance, extended temperature range and overall copper screen



SABIX® D 320 FRNC C1 5 x 0,14 mm² CE



Marking for SABIX® D 320 FRNC C1 63200514:

SAB BRÜCKSKES · D-VIERSEN · SABIX® D 320 FRNC C1 5 x 0,14 mm² CE

Construction:

Conductor:	bare copper strands with reference to VDE 0812
Insulation:	SABIX®
Colour code:	with reference to DIN 47100
Stranding:	in layers resp. pairwise, pairs in layers
Wrapping:	foil
Screen:	tinned copper braiding
Sheath material:	SABIX®
Sheath colour:	grey (RAL 7032)

Outstanding features:



- halogen-free
- good EMC characteristics
- no flame propagation
- flame retardant and self-extinguishing
- NF C32-070 C1

Technical Data:

Peak operating voltage:	< 0,25 mm ² = max. 350 V ≥ 0,25 mm ² = max. 500 V
Testing voltage:	core/core 1500 V core/screen 1200 V
Min. bending radius	
fixed laying:	5 x d
flexible application:	10 x d
Radiation resistance:	1 x 10 ⁷ cJ/kg (100 kGy)
Temperature range	
fixed laying:	-30/+90 °C
flexible application:	-20/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Fire performance:	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 C32-070 C1
Corrosiveness of conflagration gases:	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
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm ²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
multi-core cable screened				
63200214	2 x 0,14	4,0	13,0	24
63200314	3 x 0,14	4,2	14,4	26
63200414	4 x 0,14	4,4	15,8	29
63200514	5 x 0,14	4,7	20,6	35
63200614	6 x 0,14	5,0	22,0	39
63200714	7 x 0,14	5,0	23,4	40
63200814	8 x 0,14	5,6	26,7	47
63201014	10 x 0,14	6,0	29,5	52
63201214	12 x 0,14	6,2	33,7	58
63201414	14 x 0,14	6,4	36,5	63
63201614	16 x 0,14	6,7	41,1	70
63201814	18 x 0,14	7,0	43,9	76
63202014	20 x 0,14	7,3	48,3	83
63202114	21 x 0,14	7,6	51,9	88
63202414	24 x 0,14	8,0	56,0	94
63202514	25 x 0,14	8,6	57,4	105
63202714	27 x 0,14	8,6	60,1	110
63203014	30 x 0,14	8,8	66,5	119
63203214	32 x 0,14	9,1	69,3	125
63203614	36 x 0,14	9,4	74,7	135
63204014	40 x 0,14	10,0	83,0	150
63204414	44 x 0,14	10,6	106,8	171
63204814	48 x 0,14	10,8	112,3	181
63205014	50 x 0,14	11,0	121,1	190
63205214	52 x 0,14	11,0	123,8	194
63205614	56 x 0,14	11,3	129,4	205
63206114	61 x 0,14	11,6	136,3	217
63200125	1 x 0,25	3,2	9,3	17
63200225	2 x 0,25	4,3	15,2	27

item no.	no. of cores x cross section n x mm ²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
multi-core cable screened				
63200325	3 x 0,25	4,5	17,6	31
63200425	4 x 0,25	4,8	23,5	37
63200525	5 x 0,25	5,1	26,0	42
63200625	6 x 0,25	5,5	28,5	45
63200725	7 x 0,25	5,5	30,9	50
63200825	8 x 0,25	6,1	35,3	59
63200925	9 x 0,25	6,5	39,3	65
63201025	10 x 0,25	6,6	43,5	67
63201225	12 x 0,25	6,8	48,4	75
63201425	14 x 0,25	7,1	53,4	83
63201525	15 x 0,25	7,4	57,4	90
63201625	16 x 0,25	7,4	59,8	92
63201825	18 x 0,25	7,8	66,9	102
63202025	20 x 0,25	8,5	71,8	118
63202125	21 x 0,25	8,8	76,6	125
63202425	24 x 0,25	9,1	83,9	131
63202525	25 x 0,25	9,5	89,0	140
63202725	27 x 0,25	9,5	93,8	148
63203025	30 x 0,25	9,8	101,1	159
63203225	32 x 0,25	10,1	106,0	167
63203625	36 x 0,25	10,7	134,1	196
63204025	40 x 0,25	11,3	150,1	217
63204425	44 x 0,25	11,8	160,0	231
63204825	48 x 0,25	12,4	169,8	257
63205025	50 x 0,25	12,7	179,5	267
63205225	52 x 0,25	12,7	184,3	275
63205625	56 x 0,25	13,0	194,1	291
63206125	61 x 0,25	13,4	206,3	310

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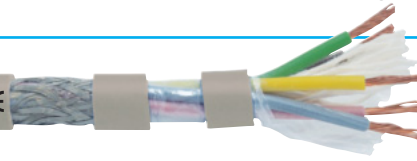
Data Cables

SABIX® D 320 FRNC C1

flexible data cable with improved fire performance, extended temperature range and overall copper screen



SABIX® D 320 FRNC C1 5 x 0,14 mm² CE



Marking for SABIX® D 320 FRNC C1 63200514:

SAB BRÜCKSKES · D-VIERSEN · SABIX® D 320 FRNC C1 5 x 0,14 mm² CE

item no.	no. of cores x cross section n x mm ²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
multi-core cable screened				
63200234	2 x 0,34	4,9	20,4	34
63200334	3 x 0,34	5,1	23,8	40
63200434	4 x 0,34	5,5	27,2	47
63200534	5 x 0,34	5,9	32,3	55
63200634	6 x 0,34	6,4	37,3	64
63200734	7 x 0,34	6,4	40,5	67
63200834	8 x 0,34	7,2	47,4	81
63201034	10 x 0,34	7,8	56,3	91
63201234	12 x 0,34	8,0	62,9	101
63201434	14 x 0,34	8,8	71,9	123
63201634	16 x 0,34	9,2	78,5	135
63201834	18 x 0,34	9,7	87,8	150
63202034	20 x 0,34	10,1	94,5	162
63202134	21 x 0,34	10,7	116,3	183
63202434	24 x 0,34	11,3	132,4	202
63202734	27 x 0,34	11,5	142,3	217
63203034	30 x 0,34	11,9	152,4	234
63203234	32 x 0,34	12,7	164,0	262
63203634	36 x 0,34	13,2	177,3	286
63204034	40 x 0,34	14,2	216,4	329
63204234	42 x 0,34	14,2	223,0	339
63204434	44 x 0,34	14,8	240,8	357
63204834	48 x 0,34	15,0	254,1	378
63205034	50 x 0,34	15,8	261,0	405
63205234	52 x 0,34	15,8	267,6	415
63205634	56 x 0,34	16,2	281,0	439
63206134	61 x 0,34	16,7	308,9	474
63200150	1 x 0,50	3,6	11,9	22
63200250	2 x 0,50	5,2	23,6	40
63200350	3 x 0,50	5,4	28,5	45
63200450	4 x 0,50	5,8	35,2	54
63200550	5 x 0,50	6,3	41,7	65
63200650	6 x 0,50	6,8	48,4	75
63200750	7 x 0,50	6,8	53,2	79
63200850	8 x 0,50	7,8	62,1	96
63201050	10 x 0,50	8,8	74,2	117
63201250	12 x 0,50	9,0	83,8	130
63201450	14 x 0,50	9,4	96,2	147
63201650	16 x 0,50	9,9	106,0	163
63201850	18 x 0,50	10,6	134,1	192
63202050	20 x 0,50	11,1	150,0	212
63202150	21 x 0,50	11,6	155,1	221
63202450	24 x 0,50	12,6	174,7	255

item no.	no. of cores x cross section n x mm ²	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
multi-core cable screened				
63202550	25 x 0,50	12,8	179,6	262
63202750	27 x 0,50	12,8	189,2	275
63203050	30 x 0,50	13,2	203,8	296
63203250	32 x 0,50	13,9	239,2	331
63203650	36 x 0,50	14,4	258,8	360
63204050	40 x 0,50	15,8	289,8	415
63204250	42 x 0,50	15,8	299,4	427
63205050	50 x 0,50	17,0	350,2	491
63205250	52 x 0,50	17,0	359,8	503
63206150	61 x 0,50	18,0	404,3	568
63200175	1 x 0,75	3,9	17,5	28
63200275	2 x 0,75	5,8	30,4	49
63200375	3 x 0,75	6,1	37,7	58
63200475	4 x 0,75	6,6	48,3	71
63200575	5 x 0,75	7,1	55,8	83
63200675	6 x 0,75	7,7	66,9	98
63200775	7 x 0,75	7,7	74,1	105
63200875	8 x 0,75	9,2	83,9	132
63201075	10 x 0,75	10,0	101,2	152
63201275	12 x 0,75	10,5	134,0	184
63201475	14 x 0,75	11,0	154,7	209
63201675	16 x 0,75	11,5	169,4	231
63201875	18 x 0,75	12,5	184,2	265
63202175	21 x 0,75	13,8	236,7	322
63202475	24 x 0,75	14,6	269,8	357
63202775	27 x 0,75	14,9	291,7	386
63203075	30 x 0,75	15,8	313,8	431
63203275	32 x 0,75	16,3	328,8	454
63203675	36 x 0,75	16,9	369,2	500
63200180	1 x 1,00	4,0	19,9	30
63200280	2 x 1,00	6,0	35,3	55
63200380	3 x 1,00	6,3	46,5	66
63200480	4 x 1,00	6,8	58,0	80
63200580	5 x 1,00	7,4	69,4	96
63200680	6 x 1,00	8,0	81,4	112
63200780	7 x 1,00	8,0	91,0	121
63200185	1 x 1,50	4,3	24,8	36
63200285	2 x 1,50	6,6	48,3	68
63200385	3 x 1,50	6,9	62,9	82
63200485	4 x 1,50	7,5	79,1	101
63200585	5 x 1,50	8,6	95,8	131
63200685	6 x 1,50	9,3	112,7	152
63200785	7 x 1,50	9,3	127,1	165

Other dimensions and colours are possible on request.

item no.	no. of pairs x cross section n x 2 x mm ²	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
multi-pair cable screened				
63210625	6 x 2 x 0,25	7,5	47,4	84
63210825	8 x 2 x 0,25	8,6	59,1	108
63211025	10 x 2 x 0,25	9,4	73,1	132
63210234	2 x 2 x 0,34	6,2	28,4	51
63210434	4 x 2 x 0,34	8,0	46,7	89
63210834	8 x 2 x 0,34	10,2	93,5	155
63210250	2 x 2 x 0,50	6,6	36,2	65
63210350	3 x 2 x 0,50	7,5	47,4	84

item no.	no. of pairs x cross section n x 2 x mm ²	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
multi-pair cable screened				
63210450	4 x 2 x 0,50	8,8	61,1	105
63210550	5 x 2 x 0,50	9,8	73,2	131
63210275	2 x 2 x 0,75	7,7	49,3	85
63210475	4 x 2 x 0,75	10,5	98,9	159
63210875	8 x 2 x 0,75	13,1	167,1	254
63211075	10 x 2 x 0,75	14,6	228,2	326
63210885	8 x 2 x 1,50	15,8	315,4	401

Other dimensions and colours are possible on request.

Control Cables

SABIX® A 224 FRNC C1

control cable with numbered cores, improved fire performance and extended temperature range



Marking for SABIX® A 224 FRNC C1 62241405:

SAB BRÜCKSKES · D-VIERSEN · SABIX® A 224 FRNC C1 14 x 0,5 mm² CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	SABIX®
Colour code:	black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, green-yellow earth wire from 3 cores
Stranding:	in layers
Sheath material:	SABIX®
Sheath colour:	black (RAL 9005)

Outstanding features:



- halogen-free
- no flame propagation
- flame retardant and self-extinguishing
- NF C32-070 C1

Technical Data:

Nominal voltage:	U ₀ /U 450/750 V
Testing voltage:	core/core 3000 V
Min. bending radius	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
Radiation resistance:	1 x 10 ⁷ cJ/kg (100 kGy)
Temperature range	
<i>fixed laying:</i>	-30/+90 °C
<i>flexible application:</i>	-20/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Fire performance:	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 C32-070 C1
Corrosiveness of conflagration gases:	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
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62240205	2 x 0,50	0,21	5,8	9,6	36
62240305	3 x 0,50	0,21	6,3	14,4	49
62240405	4 x 0,50	0,21	6,8	19,2	59
62240505	5 x 0,50	0,21	7,7	24,0	76
62240705	7 x 0,50	0,21	8,3	33,6	94
62240805	8 x 0,50	0,21	9,8	38,4	118
62240905	9 x 0,50	0,21	10,6	43,2	135
62241005	10 x 0,50	0,21	10,8	48,0	140
62241205	12 x 0,50	0,21	11,1	57,6	159
62241405	14 x 0,50	0,21	11,6	67,2	179
62241605	16 x 0,50	0,21	12,5	76,8	207
62241805	18 x 0,50	0,21	13,1	86,4	228
62242105	21 x 0,50	0,21	14,6	100,8	271
62242505	25 x 0,50	0,21	15,9	120,0	315
62243005	30 x 0,50	0,21	16,6	144,0	369
62243405	34 x 0,50	0,21	18,1	163,2	424
62244005	40 x 0,50	0,21	19,6	192,0	497
62244205	42 x 0,50	0,21	19,6	201,6	514
62245005	50 x 0,50	0,21	21,4	240,0	602
62246105	61 x 0,50	0,21	22,9	292,8	718
62240207	2 x 0,75	0,21	6,4	14,4	45
62240307	3 x 0,75	0,21	7,0	21,6	61
62240407	4 x 0,75	0,21	7,8	28,8	79
62240507	5 x 0,75	0,21	8,5	36,0	95
62240707	7 x 0,75	0,21	9,4	50,4	125
62240807	8 x 0,75	0,21	11,0	57,6	154
62240907	9 x 0,75	0,21	12,0	64,8	178
62241007	10 x 0,75	0,21	12,2	72,0	184
62241207	12 x 0,75	0,21	12,6	86,4	209
62241407	14 x 0,75	0,21	13,2	100,8	236

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62241607	16 x 0,75	0,21	14,1	115,2	272
62241807	18 x 0,75	0,21	15,0	129,6	308
62242107	21 x 0,75	0,21	16,6	151,2	363
62242507	25 x 0,75	0,21	18,2	180,0	424
62243007	30 x 0,75	0,21	18,8	216,0	487
62243407	34 x 0,75	0,21	20,4	244,8	557
62244007	40 x 0,75	0,21	22,2	288,0	661
62244207	42 x 0,75	0,21	22,2	302,4	685
62245007	50 x 0,75	0,21	24,4	360,0	803
62246107	61 x 0,75	0,21	26,0	439,2	957
62240210	2 x 1,00	0,21	6,8	19,2	53
62240310	3 x 1,00	0,21	7,2	28,8	69
62240410	4 x 1,00	0,21	8,0	38,4	89
62240510	5 x 1,00	0,21	8,8	48,0	108
62240710	7 x 1,00	0,21	9,7	67,2	142
62240810	8 x 1,00	0,21	11,4	76,8	174
62240910	9 x 1,00	0,21	12,4	86,4	200
62241010	10 x 1,00	0,21	12,6	96,0	209
62241210	12 x 1,00	0,21	13,0	115,2	239
62241410	14 x 1,00	0,21	13,8	134,4	277
62241610	16 x 1,00	0,21	14,6	153,6	311
62241810	18 x 1,00	0,21	15,5	172,8	352
62242110	21 x 1,00	0,21	17,2	201,6	415
62242510	25 x 1,00	0,21	18,8	240,0	485
62243010	30 x 1,00	0,21	19,6	288,0	568
62243410	34 x 1,00	0,21	21,3	326,4	649
62244010	40 x 1,00	0,21	23,0	384,0	759
62244210	42 x 1,00	0,21	23,0	403,2	787
62245010	50 x 1,00	0,21	25,4	480,0	953
62246110	61 x 1,00	0,21	27,1	585,6	1116

Continued on next page

Control Cables

SABIX® A 224 FRNC C1

control cable with numbered cores, improved fire performance and extended temperature range



Marking for SABIX® A 224 FRNC C1 62241405:

SAB BRÜCKSKES · D-VIERSEN · SABIX® A 224 FRNC C1 14 x 0,5 mm² CE

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62240215	2 x 1,50	0,26	7,4	28,8	65
62240315	3 x 1,50	0,26	8,0	43,2	89
62240415	4 x 1,50	0,26	8,7	57,6	111
62240515	5 x 1,50	0,26	9,8	72,0	140
62240715	7 x 1,50	0,26	10,8	100,8	185
62240815	8 x 1,50	0,26	12,7	115,2	226
62240915	9 x 1,50	0,26	13,7	129,6	258
62241015	10 x 1,50	0,26	14,0	144,0	270
62241215	12 x 1,50	0,26	14,4	172,8	309
62241415	14 x 1,50	0,26	15,3	201,6	358
62241615	16 x 1,50	0,26	16,4	230,4	412
62241815	18 x 1,50	0,26	17,2	259,2	456
62242115	21 x 1,50	0,26	19,3	302,4	547
62242515	25 x 1,50	0,26	21,0	360,0	643
62243015	30 x 1,50	0,26	21,7	432,0	743
62243415	34 x 1,50	0,26	23,8	489,6	859
62244015	40 x 1,50	0,26	25,7	576,0	1004
62244215	42 x 1,50	0,26	25,7	604,8	1041
62245015	50 x 1,50	0,26	28,3	720,0	1239
62246115	61 x 1,50	0,26	30,2	878,4	1480
62240225	2 x 2,50	0,26	8,8	48,0	96
62240325	3 x 2,50	0,26	9,5	72,0	132
62240425	4 x 2,50	0,26	10,6	96,0	170
62240525	5 x 2,50	0,26	11,6	120,0	208
62240725	7 x 2,50	0,26	12,8	168,0	275
62240825	8 x 2,50	0,26	15,2	192,0	340
62240925	9 x 2,50	0,26	16,5	216,0	388
62241025	10 x 2,50	0,26	16,8	240,0	407

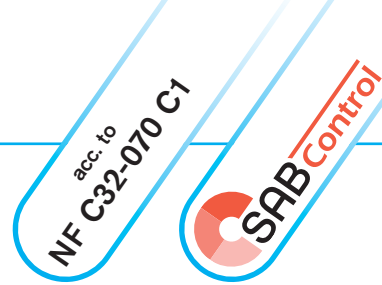
item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62241225	12 x 2,50	0,26	17,3	288,0	469
62241425	14 x 2,50	0,26	18,4	336,0	543
62241625	16 x 2,50	0,26	19,6	384,0	622
62241825	18 x 2,50	0,26	20,8	432,0	700
62242125	21 x 2,50	0,26	23,0	504,0	824
62242525	25 x 2,50	0,26	25,3	600,0	971
62240340	3 x 4,00	0,31	11,0	115,2	187
62240440	4 x 4,00	0,31	12,2	153,6	243
62240540	5 x 4,00	0,31	13,6	192,0	304
62240740	7 x 4,00	0,31	15,0	268,8	403
62240360	3 x 6,00	0,31	12,7	172,8	263
62240460	4 x 6,00	0,31	14,1	230,4	341
62240560	5 x 6,00	0,31	15,7	288,0	426
62240760	7 x 6,00	0,31	17,3	403,2	588
62240461	4 x 10,0	0,41	18,0	384,0	566
62240561	5 x 10,0	0,41	25,1	480,0	984
62240761	7 x 10,0	0,41	25,1	672,0	1121
62240462	4 x 16,0	0,41	25,2	614,4	1026
62240562	5 x 16,0	0,41	25,3	768,0	1087
62240762	7 x 16,0	0,41	27,1	1075,2	1403
62240463	4 x 25,0	0,41	24,4	960,0	1273
62240563	5 x 25,0	0,41	27,2	1200,0	1598
62240763	7 x 25,0	0,41	30,2	1680,0	2175
62240464	4 x 35,0	0,41	27,8	1344,0	1750
62240564	5 x 35,0	0,41	31,2	1680,0	2153
62240764	7 x 35,0	0,41	34,5	2352,0	2982
62240465	4 x 50,0	0,41	34,6	1920,0	2465

Other dimensions and colours are possible on request.

Control Cables

SABIX® A 226 C FRNC C1

control cable with numbered cores, improved fire performance, extended temperature range and overall copper screen



Marking for SABIX® A 226 C FRNC C1 62261215:

SAB BRÜCKSKES · D-VIERSEN · SABIX® A 226 C FRNC C1 12 x 1,5 mm² CE

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	SABIX®
Colour code:	black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, green-yellow earth wire from 3 cores
Stranding:	in layers
Wrapping:	foil
Screen:	tinned copper braiding
Sheath material:	SABIX®
Sheath colour:	black (RAL 9005)

Outstanding features:



- good EMC characteristics
- halogen-free
- no flame propagation
- flame retardant and self-extinguishing
- NF C32-070 C1

Technical Data:

Nominal voltage:	U ₀ /U 450/750 V
Testing voltage:	core/core 2500 V core/screen 2500 V
Min. bending radius	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
Radiation resistance:	1 x 10 ⁷ cJ/kg (100 kGy)
Temperature range	
<i>fixed laying:</i>	-30/+90 °C
<i>flexible application:</i>	-20/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Fire performance:	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 C32-070 C1
Corrosiveness of conflagration gases:	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
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
62260205	2 x 0,50	0,21	6,5	27,2	56
62260307	3 x 0,75	0,21	7,7	42,9	86
62260407	4 x 0,75	0,21	8,3	52,5	102
62260507	5 x 0,75	0,21	9,2	62,2	126
62260707	7 x 0,75	0,21	9,9	79,4	154
62261207	12 x 0,75	0,21	13,5	146,1	272
62261807	18 x 0,75	0,21	15,9	227,2	396
62260310	3 x 1,00	0,21	7,9	50,2	93
62260410	4 x 1,00	0,21	8,5	62,2	112
62260510	5 x 1,00	0,21	9,5	74,3	139
62261610	16 x 1,00	0,21	15,7	251,0	406
62261810	18 x 1,00	0,21	16,6	270,9	450
62260315	3 x 1,50	0,26	8,5	67,0	113
62260415	4 x 1,50	0,26	9,4	83,9	142
62260515	5 x 1,50	0,26	10,3	101,2	170
62260715	7 x 1,50	0,26	11,5	154,7	234
62261215	12 x 1,50	0,26	15,5	270,0	403
62261815	18 x 1,50	0,26	18,3	370,1	567
62260325	3 x 2,50	0,26	10,0	101,1	160
62260425	4 x 2,50	0,26	11,3	143,8	236
62260525	5 x 2,50	0,26	12,5	174,4	265
62260340	3 x 4,00	0,31	11,7	169,2	236
62260440	4 x 4,00	0,31	12,9	213,1	297
62260540	5 x 4,00	0,31	14,5	277,7	380
62260460	4 x 6,00	0,31	15,2	327,3	442
62260560	5 x 6,00	0,31	16,8	386,4	522
62260760	7 x 6,00	0,31	18,4	514,3	677
62260461	4 x 10,0	0,41	18,9	495,7	682
62260561	5 x 10,0	0,41	21,2	605,9	847
62260362	3 x 16,0	0,41	20,7	585,9	787
62260562	5 x 16,0	0,41	25,6	936,8	1246
62260563	5 x 25,0	0,41	31,3	1594,7	1938
62260564	5 x 35,0	0,41	34,9	1901,3	2449

Other dimensions and colours are possible on request.

SABIX® CB 624 FRNC C1

halogen-free, flame retardant CAN-Bus cable



Marking for SABIX® CB 624 FRNC C1:

SAB BRÜCKSKES · D-VIERSEN · SABIX® CB 624 FRNC C1 2x2x0,25mm² CE

Construction:

Conductor:	bare copper strands acc. to VDE 0812
Insulation:	SABIX®
Colour code:	acc. to DIN 47100
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Sheath material:	SABIX®
Sheath colour:	redlilac (RAL 4001)

Technical Data:

Peak operating voltage:	max. 350 V
Testing voltage:	core/core 1500 V core/screen 1200 V
Min. bending radius:	7,5 x d
Temperature range	
<i>fixed laying:</i>	-30/+90 °C
<i>flexible application:</i>	-20/+90 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Fire performance:	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, acc. to NF C32-070 C1
Corrosiveness of conflagration gases:	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
Characteristic impedance:	120 Ω (95 - 140 Ω)
Flexibility:	good
Absence of harmful substances:	acc. to RoHS directive of the European Union

Outstanding features:



- halogen-free
- no flame propagation
- NF C32-070 C1

item no.	type	no. of cores mm ² each conductor	outer-ø ± 5%	copper figure kg/km	cable weight ≈kg/km
66242251	SABIX® CB 624 FRNC C1	2 x 2 x 0,25	9,0	42,7	100
66242341	SABIX® CB 624 FRNC C1	1 x 2 x 0,34	7,7	31,0	77
66244501	SABIX® CB 624 FRNC C1	2 x 2 x 0,50	11,4	82,6	160

Other dimensions and colours are possible on request.

Industrial Gigabit Ethernet Cables

SABIX® R 691 FRNC CAT 6A C1

halogen-free Industrial Gigabit Ethernet Cable



Marking for SABIX® R 691 FRNC CAT 6A 66912604:
SAB BRÜCKSKES · D-VIERSEN · SABIX® R 691 FRNC Cat.6A 4x2x26AWG CE

Application: For the use in machines and industrial plants with highest demands on fire protection for the components, e.g. control and communication as well as safety technique in power plants.

Construction:

Conductor:	tinned copper strands, fine wires
Insulation:	PE
Colour code:	white cores with numbers 1 - 4 (+ blue, orange, green, brown)
Stranding:	twisted pairs wrapped with PETP foil and alu foil
Wrapping:	non-woven tape
Screen:	alu foil and tinned copper braiding
Sheath material:	special SABIX®
Sheath colour:	green (similar RAL 6018)

Outstanding features:



- halogen-free
- no flame propagation
- flame retardant and self-extinguishing
- NF C32-070 C1

Technical Data:

Peak operating voltage:	max. 350 V
Testing voltage:	core/core 1500 V core/screen 1200 V
Min. bending radius	
fixed laying:	5 x d
flexible application:	12 x d
Temperature range	
fixed laying:	-40/+70 °C
flexible application:	-30/+70 °C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Fire performance:	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, acc. to NF C32-070 C1
Smoke density:	acc. to IEC 61034 + VDE 0482-1034, translucence > 60%
Characteristic impedance:	100Ω ± 10Ω, accomplishes the electrical and transmission requirements with high frequency with reference to EN 50288-10-2 / CAT 6A
Flexibility:	good
Absence of harmful substances:	acc. to RoHS directive of the European Union

item no.	type	no. of cores	cross section AWG	core-ø approx. mm	outer-ø max. mm	copper figure kg/km	cable weight ≈kg/km	ohmic resistance at 20° max. Ω/km
66912604	SABIX® R 691 FRNC CAT 6A C1	8	26	1,40	9,0	40,6	85	145,0

Other dimensions and colours are possible on request.

Also possible
as harnessed cable
with M12 or RJ 45 plug!



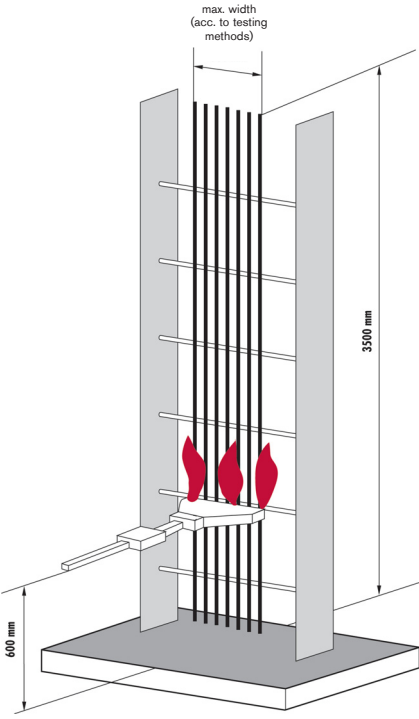
Flamability tests for electrical cables

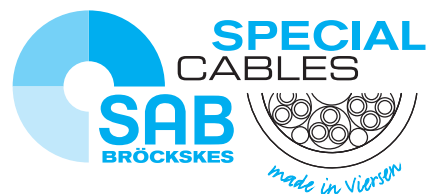
Description	NF C 32-070 »C1«
Length of specimen	1600 mm
Test temperature	+830 °C ±50 °C
Position of specimen	vertical in the chimney
Duration of test	30 minutes
Conditions	The outstanding cable above the chimney may not be damaged.

The diagram illustrates the test setup for the NF C 32-070 »C1« test. A vertical cable specimen is mounted in a chimney. The chimney is 800 mm high. The cable specimen is 1600 mm long. A ventilator is located at the top of the chimney. The cable is supported by a bracket 30 mm above the bottom of the chimney. Air is drawn from the bottom of the chimney. The cable is held in place by a bracket with four screws. The cable is shown with a flame at the bottom. The ventilator is shown with a flame at the top. The cable is shown with a flame at the bottom. The ventilator is shown with a flame at the top.

Flamability tests for electrical cables

■ Examination of the vertical flame length of vertical extended bundle of wires and insulated cables

Description	IEC 60332-3-..., EN 60332-3-...															
Length of specimen	3500 mm															
Burner	Flat burner (Ribbon gas burner of American Gas Furnace Co.)															
Test temperature	defined by stipulated flow of gas and air															
Position of specimen	vertical															
Position of flame	horizontal															
Duration of flaming	Category A, B: 40 minutes Category C, D: 20 minutes															
Conditions	<p>The burned portion of the sample must not be longer than 2.5 m measured from the bottom edge of the burner, as far as not otherwise specified in the relevant standards.</p> <table border="0"> <tr> <td></td> <td>EN 60332-</td> <td>IEC 60332-</td> </tr> <tr> <td>Category A – 7,0 l/m</td> <td>3 - 22</td> <td>3 - 22</td> </tr> <tr> <td>Category B – 3,5 l/m</td> <td>3 - 23</td> <td>3 - 23</td> </tr> <tr> <td>Category C – 1,5 l/m > 12 mm cable-ø</td> <td>3 - 24</td> <td>3 - 24</td> </tr> <tr> <td>Category D – 0,5 l/m ≤ 12 mm cable-ø</td> <td>3 - 25</td> <td>3 - 25</td> </tr> </table> <p>Volume percent of non metallic material per meter.</p> 		EN 60332-	IEC 60332-	Category A – 7,0 l/m	3 - 22	3 - 22	Category B – 3,5 l/m	3 - 23	3 - 23	Category C – 1,5 l/m > 12 mm cable-ø	3 - 24	3 - 24	Category D – 0,5 l/m ≤ 12 mm cable-ø	3 - 25	3 - 25
	EN 60332-	IEC 60332-														
Category A – 7,0 l/m	3 - 22	3 - 22														
Category B – 3,5 l/m	3 - 23	3 - 23														
Category C – 1,5 l/m > 12 mm cable-ø	3 - 24	3 - 24														
Category D – 0,5 l/m ≤ 12 mm cable-ø	3 - 25	3 - 25														



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