

# SABIX Ultra



*Fire protection has never been so flexible*

fire protection · halogen-free · flexibility · oil resistance

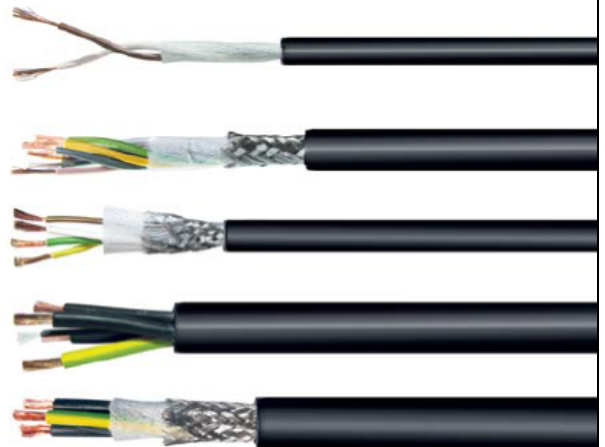


These are the characteristics united by our new product range SABIX® Ultra. Due to the new sheath material the cable can be used for flexible applications and shows the highest fire protection features such as EN 60332-3 Cat C or D respectively the French standard NF C 32-070 C 1.

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 at the vehicle chassis or as flexible control cable at the train doors. Due to the very good oil and weather resistance the use for marine and offshore technique is also recommended. The new SABIX® Ultra material can even be used for cable chain applications with moderate mechanical stress.

So far the following types are available:

<b>SABIX® SD 705 FRNC C1</b>	data cable
<b>SABIX® SD 715 C FRNC C1</b>	data cable with overall copper screen
<b>SABIX® SD 745 C FRNC C1 TP</b>	paired data cable with overall copper screen
<b>SABIX® S 710 FRNC C1</b>	control cable 0,6/1 kV
<b>SABIX® S 712 C FRNC C1</b>	control cable 0,6/1 kV with overall copper screen



## Standards:

EN 60332-1-2 · EN 60332-3 Cat C or D · IEC 60754-1 (halogen-free)

IEC 60754-2 + EN 50267-2-2 (corrosivity of gases) · EN 61034 (smoke density)

NF C 32-70 C1 (fire performance acc. to French standard)

NF X 70-100 (toxicity acc. to French standard)

## SABIX® SD 705 FRNC C1 Continuously flexible halogen-free data cable with improved fire performance



Marking for SABIX SD 705 FRNC C1 67053225:  
SAB BRÖCKSKES · D-VIERSEN · SABIX SD 705 FRNC C1 32 x 0,25 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands, extra fine wires
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	SABIX® Ultra
<b>Sheath colour:</b>	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:

<b>Peak operating voltage:</b>	< 0,25 mm² = max. 350 V ≥ 0,25 mm² = max. 500 V
<b>Testing voltage:</b>	< 0,25 mm² = 800 V ≥ 0,25 mm² = 1200 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	15 x d
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/20) flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-70 C1.
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Toxicity:</b>	acc. to NF X 70-100
<b>Oil and fuel resistance:</b>	acc. to EN 50264-1
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67050214	2 x 0,14	0,11	3,4	2,7	15
67050314	3 x 0,14	0,11	3,6	4,0	17
67050514	5 x 0,14	0,11	4,1	6,7	24
67050714	7 x 0,14	0,11	4,7	9,4	32
67050225	2 x 0,25	0,11	3,7	4,8	18
67050325	3 x 0,25	0,11	3,9	7,2	22
67050425	4 x 0,25	0,11	4,2	9,6	26
67051025	10 x 0,25	0,11	6,5	24,0	57
67051225	12 x 0,25	0,11	6,7	28,8	65

item no.	no. of cores x cross section n x mm²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67051425	14 x 0,25	0,11	7,0	33,6	73
67051825	18 x 0,25	0,11	7,9	43,2	95
67052525	25 x 0,25	0,11	9,5	60,0	125
67050234	2 x 0,34	0,11	4,3	6,5	24
67050534	5 x 0,34	0,11	5,5	16,3	44
67050734	7 x 0,34	0,11	6,5	22,8	63
67051034	10 x 0,34	0,11	7,9	32,6	82
67052534	25 x 0,34	0,11	11,7	81,6	184

Other dimensions and colours are possible on request.



For flexible applications  
in areas with highest  
fire protection requirements  
e.g. power plant technology,  
railway applications, offshore  
and shipbuilding technology

## SABIX® SD 715 C FRNC C1

Continuously flexible halogen-free data cable with improved fire performance and overall copper screen



D-VIERSEN · SABX SD 715 C FRNC C1 25 x 0,5 mm<sup>2</sup>

Marking for SABIX SD 715 C FRNC C1 67152550:  
SAB BRÖCKSKES · D-VIERSEN · SABX SD 715 C FRNC C1 25 x 0,5 mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	bare copper strands, extra fine wires
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	non-woven tape
<b>Screen:</b>	tinned copper braiding, optical coverage ≥ 85%
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	SABIX® Ultra
<b>Sheath colour:</b>	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

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

### Technical data:

<b>Peak operating voltage:</b>	< 0,25 mm <sup>2</sup> = max. 350 V ≥ 0,25 mm <sup>2</sup> = max. 500 V
<b>Testing voltage:</b>	< 0,25 mm <sup>2</sup> = 800 V ≥ 0,25 mm <sup>2</sup> = 1200 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	15 x d
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/20) flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-70 C1.
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Toxicity:</b>	acc. to NF X 70-100
<b>Oil and fuel resistance:</b>	acc. to EN 50264-1
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67150214	2 x 0,14	0,11	3,9	13,6	23
67150314	3 x 0,14	0,11	4,1	15,1	26
67151214	12 x 0,14	0,11	7,3	38,8	71
67151814	18 x 0,14	0,11	7,8	49,8	90
67152514	25 x 0,14	0,11	9,5	63,4	123
67150525	5 x 0,25	0,11	5,4	27,9	47
67150625	6 x 0,25	0,11	6,4	33,3	64
67150725	7 x 0,25	0,11	6,8	38,5	73
67150825	8 x 0,25	0,11	7,3	41,9	82
67151225	12 x 0,25	0,11	8,6	54,9	108
67151825	18 x 0,25	0,11	10,0	90,4	156
67152525	25 x 0,25	0,11	11,5	119,0	198

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67150434	4 x 0,34	0,11	5,6	29,1	49
67150534	5 x 0,34	0,11	6,4	35,9	64
67150734	7 x 0,34	0,11	7,2	45,4	82
67151234	12 x 0,34	0,11	9,0	68,4	122
67150250	2 x 0,50	0,11	5,4	25,5	44
67150450	4 x 0,50	0,11	6,3	38,7	64
67150550	5 x 0,50	0,11	6,8	45,7	76
67150475	4 x 0,75	0,11	7,0	51,1	80
67150575	5 x 0,75	0,11	7,6	57,8	95
67150775	7 x 0,75	0,11	9,4	80,1	142
67150785	7 x 1,50	0,11	10,8	147,9	215

Other dimensions and colours are possible on request.



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## SABIX® SD 745 C FRNC C1 TP Continuously flexible halogen-free paired data cable with improved fire performance and overall copper screen



Marking for SABIX SD 745 C FRNC C1 TP 67450525:  
 SAB BRÖCKSKES · D-VIERSEN · SABIX SD 745 C FRNC C1 TP 5 x 2 x 0,25 mm² CE

### Construction:

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

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

### Technical data:

<b>Peak operating voltage:</b>	< 0,25 mm² = max. 350 V ≥ 0,25 mm² = max. 500 V
<b>Testing voltage:</b>	< 0,25 mm² = 800 V ≥ 0,25 mm² = 1200 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	15 x d
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/20) flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-70 C1.
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Toxicity:</b>	acc. to NF X 70-100
<b>Oil and fuel resistance:</b>	acc. to EN 50264-1
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union

item no.	no. of pairs x cross section n x 2 x mm²	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	5,1	18,8	36
67450414	4 x 2 x 0,14	0,11	6,4	27,7	56
67450514	5 x 2 x 0,14	0,11	6,9	32,7	66
67450614	6 x 2 x 0,14	0,11	7,1	35,6	73
67451014	10 x 2 x 0,14	0,11	9,1	52,3	109
67451414	14 x 2 x 0,14	0,11	10,6	84,0	151
67450725	7 x 2 x 0,25	0,11	8,5	56,0	115
67451025	10 x 2 x 0,25	0,11	10,2	93,0	153
67451425	14 x 2 x 0,25	0,11	11,7	118,6	193
67450734	7 x 2 x 0,34	0,11	10,2	87,9	160
67451034	10 x 2 x 0,34	0,11	12,4	117,1	212

item no.	no. of pairs x cross section n x 2 x mm²	largest single wire ø mm	outer-ø ± 10% mm	copper figure kg/km	cable weight ≈ kg/km
67451834	18 x 2 x 0,34	0,11	15,9	213,8	369
67450250	2 x 2 x 0,50	0,11	7,3	41,9	75
67450350	3 x 2 x 0,50	0,11	8,0	51,1	92
67450450	4 x 2 x 0,50	0,11	9,5	64,3	120
67451050	10 x 2 x 0,50	0,11	13,7	155,8	266
67451850	18 x 2 x 0,50	0,11	17,5	280,7	451
67452550	25 x 2 x 0,50	0,11	20,0	360,2	574
67450275	2 x 2 x 0,75	0,11	8,6	51,5	103
67450475	4 x 2 x 0,75	0,11	11,0	103,7	172
67451075	10 x 2 x 0,75	0,11	16,1	238,3	382

Other dimensions and colours are possible on request.



For flexible applications  
in areas with highest  
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and shipbuilding technology

## SABIX® S 710 FRNC C1 Continuously flexible halogen-free control cable with improved fire performance



BRÖCKSKES · D-VIERSEN · SABIX® S 710 FRNC C1 4 x 1,5

Marking for SABIX® S 710 FRNC C1 67100415:

SAB BRÖCKSKES · D-VIERSEN · SABIX® S 710 FRNC C1 4 x 1,5 mm<sup>2</sup> CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	SABIX® Ultra
<b>Sheath colour:</b>	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
- NFC 32-070 C1

### Technical data:

<b>Nominal voltage:</b>	0,6/1 kV
<b>Testing voltage:</b>	4000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	4 x d
<i>flexible application:</i>	6 x d
<i>continuously flexible:</i>	15 x d
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/20) flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-70 C1.
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Toxicity:</b>	acc. to NF X 70-100
<b>Oil and fuel resistance:</b>	acc. to EN 50264-1
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67100205	2 x 0,50	0,16	6,8	9,6	64
67100505	5 x 0,50	0,16	8,5	24,0	101
67100507	5 x 0,75	0,16	9,3	36,0	124
67100707	7 x 0,75	0,16	10,9	50,4	172
67100510	5 x 1,00	0,16	9,5	48,0	139
67100710	7 x 1,00	0,16	11,3	67,2	194
67101210	12 x 1,00	0,16	14,0	115,2	287
67101810	18 x 1,00	0,16	16,5	172,8	410
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	9,9	57,6	152
67100515	5 x 1,50	0,16	11,1	72,0	191
67100715	7 x 1,50	0,16	13,3	100,8	278
67101215	12 x 1,50	0,16	16,2	172,8	394

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67101815	18 x 1,50	0,16	19,1	259,2	566
67102415	24 x 1,50	0,16	22,2	345,6	725
67102515	25 x 1,50	0,16	22,8	360,0	747
67100325	3 x 2,50	0,16	11,0	72,0	185
67100425	4 x 2,50	0,16	12,3	69,0	241
67100525	5 x 2,50	0,16	13,7	120,0	296
67100725	7 x 2,50	0,16	16,0	168,0	410
67101225	12 x 2,50	0,16	19,6	288,0	587
67100440	4 x 4,00	0,16	13,7	153,6	323
67100460	4 x 6,00	0,21	15,6	230,4	429
67100461	4 x 10,0	0,21	19,4	384,0	771
67100462	4 x 16,0	0,21	22,3	614,4	1007
67100465	4 x 50,0	0,31	36,1	1920,0	2749

Other dimensions and colours are possible on request.



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## SABIX® S 712 C FRNC C1 Continuously flexible halogen-free control cable with improved fire performance and overall copper screen



Marking for SABIX S 712 C FRNC C1 67126510:  
SAB BRÖCKSKES · D-VIERSEN · SABIX S 712 C FRNC C1 65 x 1,0 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	SABIX®
<b>Colour code:</b>	black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores
<b>Wrapping:</b>	non-woven tape
<b>Stranding:</b>	in layers
<b>Screen:</b>	tinned copper braiding, optical coverage ≥ 85%
<b>Wrapping:</b>	non-woven tape
<b>Sheath material:</b>	SABIX® Ultra
<b>Sheath colour:</b>	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

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

### Technical data:

<b>Nominal voltage:</b>	0,6/1 kV
<b>Testing voltage:</b>	core/core 4000 V core/screen 2000 V
<b>Min. bending radius</b>	
<i>fixed laying:</i>	5 x d
<i>flexible application:</i>	10 x d
<i>continuously flexible:</i>	15 x d
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg (100 kGy)
<b>Temperature range</b>	
<i>fixed laying:</i>	-40/+90 °C
<i>flexible application:</i>	-30/+90 °C
<b>Halogen-free:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Fire performance:</b>	no flame propagation acc. to IEC 60332 + EN 60332 cat. C resp. D (see page N/20) flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 + NF C 32-70 C1.
<b>Corrosiveness of conflagration gases:</b>	in compliance with IEC 60754-2 and EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Smoke density:</b>	acc. to IEC 61034 + EN 61034
<b>Toxicity:</b>	acc. to NF X 70-100
<b>Oil and fuel resistance:</b>	acc. to EN 50264-1
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67120205	2 x 0,50	0,16	7,3	29,4	82
67120505	5 x 0,50	0,16	9,0	50,1	122
67120507	5 x 0,75	0,16	9,8	65,6	149
67120707	7 x 0,75	0,16	12,0	103,6	226
67120510	5 x 1,00	0,16	10,1	77,8	166
67120710	7 x 1,00	0,16	12,4	124,0	252
67121210	12 x 1,00	0,16	14,7	184,8	341
67121810	18 x 1,00	0,16	17,4	287,1	496
67120315	3 x 1,50	0,16	9,7	72,7	151
67120415	4 x 1,50	0,16	10,7	106,1	194
67121215	12 x 1,50	0,16	17,1	286,2	479

item no.	no. of cores x cross section n x mm <sup>2</sup>	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
67121815	18 x 1,50	0,16	20,1	396,0	673
67122515	25 x 1,50	0,16	23,7	525,7	870
67120325	3 x 2,50	0,16	12,1	128,2	242
67120425	4 x 2,50	0,16	13,1	155,8	292
67120525	5 x 2,50	0,16	14,4	189,0	349
67120440	4 x 4,00	0,16	14,4	222,6	376
67120460	4 x 6,00	0,21	16,5	329,6	506
67120462	4 x 16,0	0,21	23,3	776,5	1134
67120463	4 x 25,0	0,21	27,5	1127,8	1625
67120464	4 x 35,0	0,21	31,1	1542,2	2174

Other dimensions and colours are possible on request.



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## The Company



## DIN EN ISO 9001

More than 60 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 customer's 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 of the world. 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 9001:2008. Besides we established an environmental management system for our company acc. to ISO 14001:2004, 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, middle sized company

### CEO:

- Peter Bröckskes

### plant/location:

- in Viersen (lower Rhine) 110.000 m<sup>2</sup> company site
- manufacturing from copper conductor to outer sheath,
- own VDE proofed burnchamber and laboratory

### 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 9001:2008 for every manufacturing field
- environmental management system acc. to ISO 14001:2004
- 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



**MIL, VDE, HAR, IEC, GL, DNV, BV, KR,  
ABS, NK, RINA, LR, CE**



## FLEXIBLE CABLES

- Halogen-free cables   ■ Cable track cables
- Servo motor cables   ■ ETFE, FEP, PFA cables
  - Bus cables   ■ Torsion cables
- Hybrid and special cables   ■ Control and connection cables
  - Data cables   ■ Besilen® (Silicone) cables
- Compensating and extension cables   ■ Tray cables

## TEMPERATURE MEASUREMENT

- Protecting armatures and gauge slides
- Mineral insulated thermocouples and Mineral insulated resistance thermometers
- Temperature measurement in plastic processing industry/Hot runner technique
  - Diesel thermocouples   ■ Probe with stainless steel sleeve
  - Temperature measurement in test vehicles
    - Measurement techniques

## CABLE HARNESSING

- Harnessed cables acc. to customer's specification
  - Harnessed cable track cables
  - Helix cables   ■ Cable harnesses
- Harnessed motor and transmission cables for Siemens and Indramat drives