

B 107 Besilen® insulated strands



Marking for B 107 01071000:
SAB BRÖCKSKES · D-VIERSEN · B 107 · Uo/U 1,8/3 kV

Construction:

Conductor:	bare copper strands, extra fine wires
Insulation:	Besilen® EI2 acc. to DIN VDE 0282 part 1 and HD 22.1
Colour:	translucent

Outstanding features:

- halogen-free
- heat resistant
- flexible at low temperatures
- flame retardant and self-extinguishing
- weather resistant

Technical data:

Nominal voltage	
4,0 - 6,0 mm ² :	Uo/U 1,5/1,5 kV
10,0 - 150,0 mm ² :	Uo/U 1,8/3,0 kV
Testing voltage	
4,0 - 6,0 mm ² :	4000 V
10,0 - 150,0 mm ² :	6000 V
Min. bending radius:	5 x d
Temperature range	
fixed laying:	-40/+180 °C
flexible application:	-25/+180 °C
short-time use:	+250 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Corrosiveness of conflagration gases:	IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 – no development of corrosive conflagration gases
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/14

item no.	nominal cross section mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
01070400	4,00	0,07	5,3	38,4	54
01070600	6,00	0,07	5,7	57,6	73
01071000	10,00	0,07	9,0	96,0	114
01071600	16,00	0,07	9,3	153,6	194
01072500	25,00	0,10	12,0	240,0	331
01073500	35,00	0,10	13,8	336,0	422
01075000	50,00	0,10	15,7	480,0	576
01077000	70,00	0,10	17,7	672,0	771
01079500	95,00	0,10	18,8	912,0	1006
01071200	120,00	0,10	22,0	1152,0	1257
01071500	150,00	0,10	23,7	1440,0	1542

Other dimensions and colours are possible on request.

B 108 Besilen® insulated strands with copper braid



BRÖCKSKES · D-VIERSEN · B 108 · U_o/U 1,8/3,0

Marking for B 108 01081000:
SAB BRÖCKSKES · D-VIERSEN · B 108 · U_o/U 1,8/3 kV

Construction:

Conductor:	bare copper strands, extra fine wires
Screen:	bare copper braiding
Insulation:	Besilen® EI2 acc. to DIN VDE 0282 part 1 and HD 22.1
Colour:	translucent

Outstanding features:

- halogen-free
- heat resistant
- flexible at low temperatures
- flame retardant and self-extinguishing
- weather resistant
- dimensionally stable construction

Technical data:

Nominal voltage	
4,0 - 6,0 mm ² :	U _o /U 1,5/1,5 kV
10,0 - 150,0 mm ² :	U _o /U 1,8/3,0 kV
Testing voltage	
4,0 - 6,0 mm ² :	4000 V
10,0 - 150,0 mm ² :	6000 V
Min. bending radius:	5 x d
Temperature range	
fixed laying:	-40/+180 °C
flexible application:	-25/+180 °C
short-time use:	+250 °C
Halogen-free:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Fire performance:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Corrosiveness of conflagration gases:	IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 – no development of corrosive conflagration gases
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/14

item no.	nominal cross section mm ²	largest single wire ø mm	outer-ø ± 5% mm	copper figure kg/km	cable weight ≈ kg/km
01080400	4,00	0,07	5,7	53,7	67
01080600	6,00	0,07	6,1	73,3	87
01081000	10,00	0,07	9,4	116,3	164
01081600	16,00	0,07	9,7	174,2	214
01082500	25,00	0,10	12,6	285,9	351
01083500	35,00	0,10	14,4	388,3	468
01085000	50,00	0,10	16,3	542,1	629
01087000	70,00	0,10	18,5	771,8	852
01089500	95,00	0,10	19,6	1023,5	1096
01081200	120,00	0,10	22,8	1285,7	1363
01081500	150,00	0,10	24,5	1593,3	1663

Other dimensions and colours are possible on request.

SILICONE CABLES



S 180 HT Continuous flex control cable with Silicone outer jacket for cable tracks

BRÖCKSKES · D-VIERSEN · S 180 HT CE



Marking for S 180 HT 31800440:

SAB BRÖCKSKES · D-VIERSEN · S 180 HT CE

S 180 HT is a heavy duty, multiple-conductor, continuous flex cable with tear resistant silicone jacket. The S 180 HT is recommended for use in continuous flex applications where high temperatures, UV light and mechanical abuse rapidly cause other cables to deteriorate. The S 180 HT is a continuous flex, cost effective, high temperature cable. Recommended applications include foundries, steel mills, glass factories, baking equipment, burners, heating and lighting and injection molding machinery. This cable can also be used anywhere salt water is present and high temperature processes are utilized.

Construction:

Conductor:	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	FEF
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	tape
Jacket material:	special Besilen®
Jacket color:	gray

Outstanding features:

- extreme temperature resistance
- high notch resistance
- very good flexibility

Technical data:

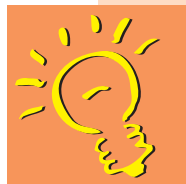
Nominal voltage:	U ₀ /U 0.6/1 kV
Testing voltage U:	4000 V acc. to EN 50264
Min. bending radius continuous flexing:	10 x O.D.
Temperature range static:	-25/+180 °C
flexing:	-25/+180 °C
short-time use:	+200 °C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 16 AWG (≈ 84/34) • 1.50 mm²				
31800315	3	0.303	7.7	63
31800415	4	0.327	8.3	78
31800515	5	0.362	9.2	99
31800715	7	0.417	10.6	134
▶ 14 AWG (≈ 140/34) • 2.50 mm²				
31800325	3	0.370	9.4	97
31800425	4	0.398	10.1	119
31800525	5	0.453	11.5	153
31800725	7	0.531	13.5	215

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 12 AWG (≈ 224/34) • 4.00 mm²				
31800440	4	0.476	12.1	178
31800540	5	0.528	13.4	224
31800740	7	0.626	15.9	315
▶ 10 AWG (≈ 186/32) • 6.00 mm²				
31800460	4	0.575	14.6	274
31800560	5	0.646	16.4	333
31800760	7	0.764	19.4	468

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 8 AWG (≈ 320/32) • 10.00 mm²				
31800461	4	0.669	17.0	409
31800561	5	0.744	18.9	501
▶ 6 AWG (≈ 504/32) • 16.00 mm²				
31800462	4	0.815	20.7	613
31800562	5	0.913	23.2	770
▶ 4 AWG (≈ 760/32) • 25.00 mm²				
31800463	4	0.945	24.0	882
▶ 2 AWG (≈ 1083/32) • 35.00 mm²				
31800464	4	1.110	28.2	1210

Other dimensions and colors are possible on request.



Application:
for use in cable tracks with extremely high ambient temperatures.
For example:
Steel industry.

SILICONE CABLES

S 180 C HT Continuous flex shielded control cable with Silicone outer jacke for cable tracks



Marking for S 180 C HT 31850440:
SAB BRÖCKSKES · D-VIERSEN · S 180 C HT CE

S 180 C HT is a heavy duty, multiple-conductor, shielded, continuous flex cable with tear resistant silicone jacket. The S 180 C HT is recommended for use in continuous flex applications where high temperatures, UV light and mechanical abuse rapidly cause other cables to deteriorate. The S 180 C HT is a continuous flex, cost effective, high temperature cable. Recommended applications include foundries, steel mills, glass factories, baking equipment, burners, heating and lighting and injection molding machinery. This cable can also be used anywhere salt water is present and high temperature processes are utilized. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	FEP
Color code:	black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Wrapping:	tape
Screen:	tinned copper braiding
Jacket material:	special Besilen®
Jacket color:	gray

Technical data:

Nominal voltage:	Uo/U 0.6/1 kV
Testing voltage U:	4000 V acc. to EN 50264
Min. bending radius continuous flexing:	15 x O.D.
Temperature range static:	-25/+180 °C
flexing:	-25/+180 °C
short-time use:	+200 °C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Flexibility:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

Outstanding features:

- very good EMC characteristics
- extreme temperature resistance
- high notch resistance
- very good flexibility

item no.	no. of conductors incl. ground	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft
▶ 16 AWG (≈ 84/34) • 1.50 mm²				
31850315	3	0.319	8.1	74
31850415	4	0.350	8.9	92
31850515	5	0.378	9.6	112
31850715	7	0.449	11.4	161
▶ 14 AWG (≈ 140/34) • 2.50 mm²				
31850325	3	0.386	9.8	110
31850425	4	0.437	11.1	149
31850525	5	0.476	12.1	180
31850725	7	0.551	14.0	245

item no.	no. of conductors incl. ground	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft
▶ 12 AWG (≈ 224/34) • 4.00 mm²				
31850440	4	0.500	12.7	204
31850540	5	0.551	14.0	254
31850740	7	0.657	16.7	364
▶ 10 AWG (≈ 186/32) • 6.00 mm²				
31850460	4	0.598	15.2	307
31850560	5	0.677	17.2	382
31850760	7	0.795	20.2	524

item no.	no. of conductors incl. ground	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft
▶ 8 AWG (≈ 320/32) • 10.00 mm²				
31850461	4	0.701	17.8	459
31850561	5	0.776	19.7	556
▶ 6 AWG (≈ 504/32) • 16.00 mm²				
31850462	4	0.846	21.5	677
31850562	5	0.945	24.0	844
▶ 4 AWG (≈ 760/32) • 25.00 mm²				
31850463	4	0.992	25.2	970
▶ 2 AWG (≈ 1083/32) • 35.00 mm²				
31850464	4	1.142	29.0	1300

Other dimensions and colors are possible on request.



Application:
for use in cable tracks with extremely high ambient temperatures.
For example:
Steel industry.