S 200 C

Continuous flex halogen-free polyurethane shielded control cable with extreme temperature range



Marking for S 200 C 7841215:
SAB BRÖCKSKES · D-VIERSEN · S 200 C 12 x 1.5 mm²

Construction:

Conductor:	bare copper strands acc. to IEC 60228, VDE 0295, class 6
Insulation:	TPE
Color code: **from 2 conductors**	black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334, green/yellow ground from 3 conductors
Stranding:	specially adjusted layering with non-woven tape over each layer
Inner jacket:	SABIX®
Wrapping:	non-woven tape
Shielding:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PUR, TMPU acc. to EN 50363-3 + VDE 0207-363-3-10-2 with matte surface
Jacket color:	gray (RAL 7000)

Outstanding features:

- **free from paint wetting impairment substances** (PWIS-free)
- **flexible at low temperatures**
- **halogen-free**
- **travel>10 m is possible**
- **good EMC characteristics**
- **high abrasion resistance**
- **minimal bending radius**
- **small outer diameter**

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage:	conductor/conductor: 2000 V conductor/shielding: 2000 V
Min. bending radius: *continuously flexing:*	7.5 x O.D.
Radiation resistance:	1 x 10^7 cJ/kg
Temperature range: *static:* *flexing:*	 -50/+90°C -40/+90°C
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very 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	nominal outer-ø mm	cable weight ≈lbs/mft
► 20 AWG (≈ 28/34) • 0.50 mm²				
7840205	2	0.268	6.8	37
7840305	3	0.276	7.0	42
7840405	4	0.291	7.4	48
7840505	5	0.311	7.9	56
7840705	7	0.354	9.0	73
7841205	12	0.417	10.6	102
7841805	18	0.480	12.2	144
7842505	25	0.583	14.8	206
7843605	36	0.646	16.4	255
7845205	52	0.756	19.2	352
7846505	65	0.854	21.7	435
► 19 AWG (≈ 42/34) • 0.75 mm²				
7840207	2	0.287	7.3	43
7840307	3	0.299	7.6	50
7840407	4	0.315	8.0	58
7840507	5	0.346	8.8	71
7840707	7	0.386	9.8	87
7841207	12	0.469	11.9	137
7841807	18	0.559	14.2	198
7842507	25	0.654	16.6	259
7843607	36	0.736	18.7	349
7845207	52	0.862	21.9	488
7846507	65	0.965	24.5	583

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈lbs/mft
► 18 AWG (≈ 56/34) • 1.00 mm²				
7840210	2	0.303	7.7	48
7840310	3	0.315	8.0	58
7840410	4	0.335	8.5	66
7840510	5	0.366	9.3	81
7840710	7	0.421	10.7	117
7841210	12	0.504	12.8	167
7841810	18	0.598	15.2	248
7842510	25	0.724	18.4	334
7843610	36	0.799	20.3	441
7845210	52	0.937	23.8	612
7846510	65	1.055	26.8	759
► 16 AWG (≈ 84/34) • 1.50 mm²				
7840115	1	0.181	4.6	24
7840215	2	0.327	8.3	58
7840315	3	0.339	8.6	71
7840415	4	0.370	9.4	88
7840515	5	0.398	10.1	100
7840715	7	0.469	11.9	141
7841215	12	0.579	14.7	236
7841815	18	0.665	16.9	325
7842515	25	0.803	20.4	439
7843615	36	0.906	23.0	597
7845215	52	1.059	26.9	799
7846515	65	1.177	29.9	1017

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈lbs/mft
► 14 AWG (≈ 140/34) • 2.50 mm²				
7840125	1	0.209	5.3	33
7840225	2	0.390	9.9	82
7840325	3	0.417	10.6	111
7840425	4	0.453	11.5	137
7840525	5	0.496	12.6	167
7840725	7	0.591	15.0	245
7841225	12	0.728	18.5	364
7841825	18	0.850	21.6	515
7842525	25	1.024	26.0	696
7843625	36	1.130	28.7	934
7845225	52	1.299	33.0	1250
► 12 AWG (≈ 224/34) • 4.00 mm²				
7840140	1	0.232	5.9	45
7840240	2	0.457	11.6	122
7840340	3	0.476	12.1	151
7840440	4	0.539	13.7	201
7840540	5	0.591	15.0	240
7840740	7	0.709	18.0	357

continued on next page

S 200 C

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Marking for S 200 C 7840161:
SAB BRÖCKSKES · D-VIERSEN · S 200 C 1 x 10.0 mm² CE



Marking for S 200 C 7841215:
SAB BRÖCKSKES · D-VIERSEN · S 200 C 12 x 1.5 mm² CE

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈lbs/mft
▶ **10 AWG (≈ 186/32) • 6.00 mm²**				
7840160	1	0.260	6.6	61
7840260	2	0.539	13.7	169
7840360	3	0.575	14.6	228
7840460	4	0.626	15.9	282
7840560	5	0.709	18.0	351
7840760	7	0.811	20.6	478
▶ **8 AWG (≈ 320/32) • 10.00 mm²**				
7840161	1	0.303	7.7	91
7840361	3	0.685	17.4	347
7840461	4	0.744	18.9	434
7840561	5	0.807	20.5	491
▶ **6 AWG (≈ 504/32) • 16.00 mm²**				
7840162	1	0.358	9.1	140
7840362	3	0.815	20.7	486
7840462	4	0.886	22.5	615
7840562	5	0.972	24.7	740

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈lbs/mft
▶ **4 AWG (≈ 760/32) • 25.00 mm²**				
7840163	1	0.421	10.7	202
7840363	3	0.941	23.9	698
7840463	4	1.016	25.8	871
7840563	5	1.146	29.1	1082
▶ **2 AWG (≈ 1083/32) • 35.00 mm²**				
7840164	1	0.492	12.5	278
7840464	4	1.185	30.1	1196
7840564	5	1.303	33.1	1424
▶ **1 AWG (≈ 703/28) • 50.00 mm²**				
7840165	1	0.591	15.0	405
7840465	4	1.398	35.5	1756
▶ **2/0 AWG (≈ 988/28) • 70.00 mm²**				
7840166	1	0.693	17.6	560
▶ **3/0 AWG (≈ 1340/28) • 95.00 mm²**				
7840167	1	0.846	21.5	765

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈lbs/mft
▶ **4/0 AWG (≈ 1680/28) • 120.00 mm²**				
7840168	1	0.894	22.7	923
▶ **250 MCM (≈ 2122/28) • 150.00 mm²**				
7840169	1	1.031	26.2	1164
▶ **350 MCM (≈ 1472/26) • 185.00 mm²**				
7840170	1	1.008	25.6	1402
▶ **450 MCM (≈ 1910/26) • 240.00 mm²**				
7840171	1	1.232	31.3	1777

Other dimensions and colors are available on request

Possible on request:

- **single conductor with green/yellow insulation and black outer jacket or 0.6/1 kV**