

# Continuous Flex

## S 200

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



Marking for S 200 7741215:

SAB BRÖCKSKES · D-VIERSEN · S 200 12 x 1.5 mm² CE

### Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228, VDE 0295, class 6
<b>Insulation:</b>	TPE
<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>	specially adjusted layering with non-woven tape over each layer
<b>Wrapping:</b>	non-woven tape
<b>Jacket material:</b>	PUR, TPU acc. to EN 50363-3 + VDE 0207-363-3-10-2 with matte surface
<b>Jacket color:</b>	gray (RAL 7000)

### Outstanding features:



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

### Technical data:

<b>Nominal voltage:</b>	Uo/U 300/500 V
<b>Testing voltage:</b>	conductor/conductor: 2000 V
<b>Min. bending radius:</b> <i>continuously flexing:</i>	7.5 x O.D.
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg
<b>Temperature range:</b> <i>static:</i> <i>flexing:</i>	-50/+90°C -40/+90°C
<b>Halogen-free:</b>	acc. to IEC 60754-1 + VDE 0482-754-1
<b>Oil resistance:</b>	very good - TPU acc. to EN 50363-10-2 + VDE 0207-363-10-2
<b>Chemical resistance:</b>	good against acids, alkalines, solvents, hydraulic liquids etc.
<b>Continuous flexibility:</b>	very good
<b>Weather resistance:</b>	very good
<b>Approvals:</b>	CE, EAC, RoHS
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page O/30

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item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>▶ 20 AWG (≈ 28/34) ▪ 0.50 mm<sup>2</sup></b>				
7740205	2	0.193	4.9	19
7740305	3	0.201	5.1	23
7740405	4	0.217	5.5	28
7740505	5	0.236	6.0	34
7740705	7	0.272	6.9	46
7741205	12	0.327	8.3	67
7741805	18	0.390	9.9	96
7742505	25	0.469	11.9	132
7743605	36	0.539	13.7	189
7745005	50	0.634	16.1	256
7746505	65	0.717	18.2	321
<b>▶ 19 AWG (≈ 42/34) ▪ 0.75 mm<sup>2</sup></b>				
7740207	2	0.213	5.4	24
7740307	3	0.224	5.7	30
7740407	4	0.240	6.1	36
7740507	5	0.264	6.7	45
7740707	7	0.311	7.9	62
7741207	12	0.378	9.6	92
7741807	18	0.445	11.3	136
7742507	25	0.547	13.9	187
7743607	36	0.606	15.4	258
7745007	50	0.724	18.4	355
7746507	65	0.819	20.8	462

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>▶ 18 AWG (≈ 56/34) ▪ 1.00 mm<sup>2</sup></b>				
7740210	2	0.228	5.8	30
7740310	3	0.240	6.1	36
7740410	4	0.260	6.6	45
7740510	5	0.283	7.2	55
7740710	7	0.339	8.6	78
7741210	12	0.409	10.4	116
7741810	18	0.484	12.3	172
7742510	25	0.594	15.1	237
7743610	36	0.669	17.0	333
7745010	50	0.799	20.3	458
7746510	65	0.902	22.9	595
<b>▶ 16 AWG (≈ 84/34) ▪ 1.50 mm<sup>2</sup></b>				
7740115	1	0.157	4.0	17
7740215	2	0.252	6.4	38
7740315	3	0.264	6.7	47
7740415	4	0.287	7.3	60
7740515	5	0.315	8.0	74
7740715	7	0.378	9.6	107
7741215	12	0.465	11.8	163
7741815	18	0.559	14.2	243
7742515	25	0.673	17.1	329
7743615	36	0.760	19.3	464
7745015	50	0.906	23.0	638
7746515	65	1.024	26.0	833

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
<b>▶ 14 AWG (≈ 140/34) ▪ 2.50 mm<sup>2</sup></b>				
7740125	1	0.185	4.7	26
7740225	2	0.307	7.8	57
7740325	3	0.327	8.3	74
7740425	4	0.362	9.2	95
7740525	5	0.402	10.2	118
7740725	7	0.480	12.2	172
7741225	12	0.606	15.4	268
7741825	18	0.713	18.1	395
7742525	25	0.870	22.1	539
7743625	36	0.976	24.8	758
<b>▶ 12 AWG (≈ 224/34) ▪ 4.00 mm<sup>2</sup></b>				
7740140	1	0.213	5.4	38
7740240	2	0.366	9.3	87
7740340	3	0.386	9.8	116
7740440	4	0.425	10.8	146
7740540	5	0.476	12.1	180
7740740	7	0.575	14.6	265

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Marking for S 200 7740161:  
SAB BRÖCKSKES · D-VIERSEN · S 200 1 x 10.0 mm² CE



Marking for S 200 7741215:  
SAB BRÖCKSKES · D-VIERSEN · S 200 12 x 1.5 mm² CE

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item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈lbs/mft
<b>▶ 10 AWG (≈ 186/32) ▪ 6.00 mm²</b>				
7740160	1	0.240	6.1	51
7740260	2	0.425	10.8	118
7740360	3	0.461	11.7	165
7740460	4	0.504	12.8	212
7740560	5	0.571	14.5	261
7740760	7	0.681	17.3	339
<b>▶ 8 AWG (≈ 320/32) ▪ 10.00 mm²</b>				
7740161	1	0.280	7.1	81
7740361	3	0.555	14.1	265
7740461	4	0.622	15.8	341
7740561	5	0.677	17.2	410
<b>▶ 6 AWG (≈ 504/32) ▪ 16.00 mm²</b>				
7740162	1	0.327	8.3	119
7740362	3	0.669	17.0	401
7740462	4	0.748	19.0	525
7740562	5	0.835	21.2	659

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈lbs/mft
<b>▶ 4 AWG (≈ 760/32) ▪ 25.00 mm²</b>				
7740163	1	0.390	9.9	177
7740363	3	0.811	20.6	570
7740463	4	0.898	22.8	776
7740563	5	1.000	25.4	913
<b>▶ 2 AWG (≈ 1083/32) ▪ 35.00 mm²</b>				
7740164	1	0.453	11.5	247
7740464	4	1.039	26.4	1030
7740564	5	1.173	29.8	1273
<b>▶ 1 AWG (≈ 703/28) ▪ 50.00 mm²</b>				
7740165	1	0.551	14.0	361
7740465	4	1.252	31.8	1523
<b>▶ 2/0 AWG (≈ 988/28) ▪ 70.00 mm²</b>				
7740166	1	0.657	16.7	507
<b>▶ 3/0 AWG (≈ 1340/28) ▪ 95.00 mm²</b>				
7740167	1	0.807	20.5	691

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈lbs/mft
<b>▶ 4/0 AWG (≈ 1680/28) ▪ 120.00 mm²</b>				
7740168	1	0.846	21.5	847
<b>▶ 250 MCM (≈ 2122/28) ▪ 150.00 mm²</b>				
7740169	1	0.969	24.6	1087
<b>▶ 350 MCM (≈ 1472/28) ▪ 185.00 mm²</b>				
7740170	1	1.051	26.7	1305
<b>▶ 450 MCM (≈ 1910/28) ▪ 240.00 mm²</b>				
7740171	1	1.185	30.1	1668

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