S 200 C

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

RoHS

CE

Marking for S 200 C 07840161:
SAB BRÖCKSKES · D-VIERSEN · S 200 C 1 x 10.0 mm² CE

Marking for S 200 C 07840515:
SAB BRÖCKSKES · D-VIERSEN · S 200 C 5 G 1.5 mm² CE

S 200 C is a continuous flex shielded multi-conductor cable with a temperature range of -40°C up to +90°C designed for high speed applications in the most extreme conditions. The halogen-free TPE outer jacket passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Color code from 2 conductors:	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
Inner jacket:	SABIX®
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- **free from paint wetting disruptive substances** (LABS - free)
- **flexible at low temperatures**
- **halogen-free**
- **travel > 10 m is possible**
- **good EMC characteristics**
- **high abrasion resistance**

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage U:	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 2000 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
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	mm	cable weight ≈ lbs/mft
► **20 AWG (≈ 28/34) • 0.50 mm²**				
07840205	2	0.268	6.8	34
07840305	3	0.276	7.0	39
07840405	4	0.291	7.4	45
07840505	5	0.311	7.9	52
07840705	7	0.354	9.0	68
07841205	12	0.417	10.6	101
07841805	18	0.480	12.2	136
07842505	25	0.583	14.8	201
07843605	36	0.646	16.4	255
07845205	52	0.756	19.2	352
07846505	65	0.854	21.7	435

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **19 AWG (≈ 42/34) • 0.75 mm²**				
07840207	2	0.287	7.3	40
07840307	3	0.299	7.6	47
07840407	4	0.315	8.0	55
07840507	5	0.346	8.8	66
07840707	7	0.386	9.8	83
07841207	12	0.469	11.9	129
07841807	18	0.559	14.2	198
07842507	25	0.654	16.6	259
07843607	36	0.736	18.7	349
07845207	52	0.862	21.9	485
07846507	65	0.965	24.5	583

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **18 AWG (≈ 56/34) • 1.00 mm²**				
07840210	2	0.303	7.7	46
07840310	3	0.315	8.0	55
07840410	4	0.335	8.5	65
07840510	5	0.366	9.3	77
07840710	7	0.421	10.7	107
07841210	12	0.504	12.8	161
07841810	18	0.598	15.2	237
07842510	25	0.724	18.4	323
07843610	36	0.799	20.3	425
07845210	52	0.937	23.8	594
07846510	65	1.055	26.8	726

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S 200 C is a continuous flex shielded multi-conductor cable with a temperature range of -40°C up to +90°C designed for high speed applications in the most extreme conditions. The halogen-free TPE outer jacket passes the stringent VDE test 0282 part 10 and HD 22.10 oil test and provides excellent resistance to chemicals and abrasion. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	bare copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 6
Insulation:	TPE
Color code from 2 conductors:	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
Inner jacket:	SABIX®
Wrapping:	non-woven tape
Screen:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface
Jacket color:	gray

Outstanding features:

- **free from paint wetting disruptive substances** (LABS - free)
- **flexible at low temperatures**
- **halogen-free**
- **travel > 10 m is possible**
- **good EMC characteristics**
- **high abrasion resistance**

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage U:	2000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 2000 V
Min. bending radius *continuous flexing:*	7.5 x O.D.
Radiation resistance:	5 x 10^7 cJ/kg
Temperature range *static:* *flexing:*	-50/+90°C -40/+90°C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Oil resistance:	very good acc. to DIN VDE 0282 part 10 + HD 22.10
Chemical resistance:	good against acids, alkalines, solvents, hydraulic liquids etc.
Continuous flexibility:	very good
Weather resistance:	very good
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	mm	cable weight ≈ lbs/mft
► **16 AWG (≈ 84/34) • 1.50 mm²**				
07840115	1	0.181	4.6	24
07840215	2	0.327	8.3	55
07840315	3	0.346	8.8	70
07840415	4	0.370	9.4	84
07840515	5	0.398	10.1	97
07840715	7	0.469	11.9	138
07841215	12	0.579	14.7	229
07841815	18	0.665	16.9	313
07842515	25	0.803	20.4	425
07843615	36	0.906	23.0	575
07845215	52	1.059	26.9	710
07846515	65	1.177	29.9	974

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **14 AWG (≈ 140/34) • 2.50 mm²**				
07840125	1	0.209	5.3	33
07840225	2	0.390	9.9	82
07840325	3	0.417	10.6	107
07840425	4	0.453	11.5	132
07840525	5	0.496	12.6	159
07840725	7	0.591	15.0	225
07841225	12	0.728	18.5	353
07841825	18	0.858	21.8	497
07842525	25	1.024	26.0	675
07843625	36	1.130	28.7	901
07845225	52	1.299	33.0	1221

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **12 AWG (≈ 224/34) • 4.00 mm²**				
07840140	1	0.236	6.0	46
07840240	2	0.469	11.9	120
07840340	3	0.476	12.1	151
07840440	4	0.539	13.7	193
07840540	5	0.591	15.0	240
07840740	7	0.709	18.0	327
► **10 AWG (≈ 183/32) • 6.00 mm²**				
07840160	1	0.260	6.6	60
07840260	2	0.539	13.7	169
07840360	3	0.575	14.6	224
07840460	4	0.626	15.9	278
07840560	5	0.677	17.2	326
07840760	7	0.811	20.6	413

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item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **8 AWG (≈ 320/32) • 10.00 mm²**				
07840161	1	0.303	7.7	91
07840361	3	0.685	17.4	337
07840461	4	0.736	18.7	419
07840561	5	0.807	20.5	491
► **6 AWG (≈ 504/32) • 16.00 mm²**				
07840162	1	0.358	9.1	138
07840362	3	0.815	20.7	487
07840462	4	0.886	22.5	615
07840562	5	0.972	24.7	740

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **4 AWG (≈ 760/32) • 25.00 mm²**				
07840163	1	0.421	10.7	206
07840363	3	0.941	23.9	704
07840463	4	1.016	25.8	882
07840563	5	1.146	29.1	1082
► **2 AWG (≈ 1083/32) • 35.00 mm²**				
07840164	1	0.492	12.5	274
07840464	4	1.185	30.1	1186
07840564	5	1.303	33.1	1424
► **1 AWG (≈ 703/28) • 50.00 mm²**				
07840165	1	0.587	14.9	404
07840465	4	1.398	35.5	1661

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
► **2/0 AWG (≈ 988/28) • 70.00 mm²**				
07840166	1	0.697	17.7	555
► **3/0 AWG (≈ 1340/28) • 95.00 mm²**				
07840167	1	0.846	21.5	754
► **4/0 AWG (≈ 1680/28) • 120.00 mm²**				
07840168	1	0.894	22.7	911
► **250 MCM (≈ 2122/28) • 150.00 mm²**				
07840169	1	1.031	26.2	1151
► **350 MCM (≈ 1472/26) • 185.00 mm²**				
07840170	1	1.098	27.9	1384
► **450 MCM (≈ 1910/26) • 240.00 mm²**				
07840171	1	1.232	31.3	1759

Other dimensions and colors are possible on request.