



S 200 C

Application and Description

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 even in the most extreme conditions. The halogen free polyurethane 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..

Cable Construction

- Flexible bare copper strands
- Strands to IEC 60228, EN 60228, VDE0295 class 6
- TPE 510 insulation
- Color code from 2 conductors: black conductors with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 conductors
- specially adjusted layering with non-woven tape over each layer
- SABA322 inner jacket
- non-woven tape
- tinned copper braiding
- non-woven tape
- Grey PUR, TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 with mat surface jacket

Technical Characteristics

- Working Voltage: 300/500 volts
- Test voltage: 2000 V acc. to DIN VDE 0281 part 2 + HD 21.2 conductor/screen 2000 V
- Minimum bending radius: 7.5 x Ø
- Operation temperature range: -50 °C to 90 °C(static) -40 °C to 90 °C(flexing)
- Radiation resistance: 5 x 10⁶ cJ/kg
- Zero halogen: acc. to DIN VDE 0472 part 815 and IEC 60754-1
- Oil resistance: very good -TMPU acc. to DIN VDE 0282 part 10 + HD 22.10
- Chem. resistance: good against acids, alkalines, solvents,hydraulic liquids etc.
- Continuous flexibility: very good
- Weather resistance: very good
- Absence of harmful substances: acc. to RoHS-guideline 2002/95/EG



Cable Parameter

AWG	Cross Sectional Area mm ²	no. of conductors	nominal outer-ø		cable weight lbs/mft
			inch	mm	
20 AWG (33/34)	0.5	2	0.268	6.8	34
20 AWG (33/34)	0.5	3	0.276	7	39
20 AWG (33/34)	0.5	4	0.291	7.4	45
20 AWG (33/34)	0.5	5	0.311	7.9	52
20 AWG (33/34)	0.5	7	0.354	9	68
20 AWG (33/34)	0.5	12	0.417	10.6	101
20 AWG (33/34)	0.5	18	0.48	12.2	136
20 AWG (33/34)	0.5	25	0.583	14.8	201
20 AWG (33/34)	0.5	36	0.646	16.4	255
20 AWG (33/34)	0.5	52	0.756	19.2	352
20 AWG (33/34)	0.5	65	0.854	21.7	435
19 AWG (42/34)	0.75	2	0.287	7.3	40
19 AWG (42/34)	0.75	3	0.299	7.6	47
19 AWG (42/34)	0.75	4	0.315	8	55
19 AWG (42/34)	0.75	5	0.346	8.8	66
19 AWG (42/34)	0.75	7	0.386	9.8	83
19 AWG (42/34)	0.75	12	0.469	11.9	129
19 AWG (42/34)	0.75	18	0.559	14.2	198
19 AWG (42/34)	0.75	25	0.654	16.6	259
19 AWG (42/34)	0.75	36	0.736	18.7	349
19 AWG (42/34)	0.75	52	0.862	21.9	485
19 AWG (42/34)	0.75	65	0.965	24.5	583
18 AWG (56/34)	1	2	0.303	7.7	46
18 AWG (56/34)	1	3	0.315	8	55
18 AWG (56/34)	1	4	0.335	8.5	65
18 AWG (56/34)	1	5	0.366	9.3	77
18 AWG (56/34)	1	7	0.421	10.7	107
18 AWG (56/34)	1	12	0.504	12.8	161
18 AWG (56/34)	1	18	0.598	15.2	237
18 AWG (56/34)	1	25	0.724	18.4	323
18 AWG (56/34)	1	36	0.799	20.3	425
18 AWG (56/34)	1	52	0.937	23.8	594
18 AWG (56/34)	1	65	1.055	26.8	726
16 AWG (84/34)	1.5	1	0.181	4.6	24
16 AWG (84/34)	1.5	2	0.327	8.3	55
16 AWG (84/34)	1.5	3	0.346	8.8	70
16 AWG (84/34)	1.5	4	0.37	9.4	84



German Standard (VDE)

AWG	Cross Sectional Area mm ²	no. of conductors	nominal outer-ø		cable weight lbs/mft
			inch	mm	
16 AWG (84/34)	1.5	5	0.398	10.1	97
16 AWG (84/34)	1.5	7	0.469	11.9	138
16 AWG (84/34)	1.5	12	0.579	14.7	229
16 AWG (84/34)	1.5	18	0.665	16.9	313
16 AWG (84/34)	1.5	25	0.803	20.4	425
16 AWG (84/34)	1.5	36	0.906	23	575
16 AWG (84/34)	1.5	52	1.059	26.9	710
16 AWG (84/34)	1.5	65	1.177	29.9	974
14 AWG (140/34)	2.5	1	0.209	5.3	33
14 AWG (140/34)	2.5	2	0.39	9.9	79
14 AWG (140/34)	2.5	3	0.417	10.6	107
14 AWG (140/34)	2.5	4	0.453	11.5	132
14 AWG (140/34)	2.5	5	0.496	12.6	159
14 AWG (140/34)	2.5	7	0.591	15	225
14 AWG (140/34)	2.5	12	0.728	18.5	353
14 AWG (140/34)	2.5	18	0.858	21.8	497
14 AWG (140/34)	2.5	25	1.024	26	675
14 AWG (140/34)	2.5	36	1.13	28.7	901
14 AWG (140/34)	2.5	52	1.299	33	1221
12 AWG (224/34)	4	1	0.236	6	46
12 AWG (224/34)	4	2	0.469	11.9	120
12 AWG (224/34)	4	3	0.476	12.1	151
12 AWG (224/34)	4	4	0.539	13.7	193
12 AWG (224/34)	4	5	0.591	15	240
12 AWG (224/34)	4	7	0.709	18	327
10 AWG (183/32)	6	1	0.26	6.6	60
10 AWG (183/32)	6	2	0.539	13.7	169
10 AWG (183/32)	6	3	0.575	14.6	224
10 AWG (183/32)	6	4	0.626	15.9	278
10 AWG (183/32)	6	5	0.677	17.2	326
10 AWG (183/32)	6	7	0.811	20.6	413
8 AWG (320/32)	10	1	0.303	7.7	91
8 AWG (320/32)	10	3	0.685	17.4	337
8 AWG (320/32)	10	4	0.736	18.7	419
8 AWG (320/32)	10	5	0.807	20.5	491
6 AWG (512/32)	16	1	0.358	9.1	138
6 AWG (512/32)	16	3	0.815	20.7	487
6 AWG (512/32)	16	4	0.886	22.5	615
6 AWG (512/32)	16	5	0.972	24.7	740



Addison Industrial Cables

German Standard (VDE)

AWG	Cross Sectional Area mm ²	no. of conductors	nominal outer- \emptyset		cable weight lbs/mft
			inch	mm	
4 AWG (798/32)	25	1	0.421	10.7	206
4 AWG (798/32)	25	3	0.941	23.9	704
4 AWG (798/32)	25	4	1.016	25.8	882
4 AWG (798/32)	25	5	1.146	29.1	1082
2 AWG (1083/32)	35	1	0.492	12.5	274
2 AWG (1083/32)	35	4	1.185	30.1	1186
2 AWG (1083/32)	35	5	1.303	33.1	1424
1 AWG (703/28)	50	1	0.587	14.9	404
1 AWG (703/28)	50	4	1.398	35.5	1661
2/0 AWG (988/28)	70	1	0.697	17.7	555
3/0 AWG (1340/28)	95	1	0.846	21.5	754
4/0 AWG (1680/28)	120	1	0.894	22.7	911
250 MCM (2122/28)	150	1	1.031	26.2	1151
350 MCM (1472/26)	185	1	1.098	27.9	1384
450 MCM (1910/26)	240	1	1.232	31.3	1759