



### S 200

#### Application and Description

S 200 is a continuous flex 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.

#### 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
- 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
- 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 10<sup>6</sup> 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 <sup>2</sup>	no. of conductors	nominal outer-ø		cable weight lbs/mft
			inch	mm	
14 AWG (140/34)	2.5	1	0.181	4.6	25
14 AWG (140/34)	2.5	2	0.315	8.0	58
14 AWG (140/34)	2.5	3	0.335	8.5	78
14 AWG (140/34)	2.5	4	0.370	9.4	99
14 AWG (140/34)	2.5	5	0.409	10.4	122
14 AWG (140/34)	2.5	7	0.488	12.4	171
14 AWG (140/34)	2.5	12	0.622	15.8	272
14 AWG (140/34)	2.5	18	0.732	18.6	401
14 AWG (140/34)	2.5	25	0.894	22.7	547
14 AWG (140/34)	2.5	36	1.004	25.5	770
12 AWG (224/34)	4	1	0.213	5.4	36
12 AWG (224/34)	4	2	0.366	9.3	85
12 AWG (224/34)	4	3	0.386	9.8	114
12 AWG (224/34)	4	4	0.425	10.8	141
12 AWG (224/34)	4	5	0.476	12.1	183
12 AWG (224/34)	4	7	0.575	14.6	261
10 AWG (183/32)	6	1	0.240	6.1	51
10 AWG (183/32)	6	2	0.425	10.8	123
10 AWG (183/32)	6	3	0.461	11.7	165
10 AWG (183/32)	6	4	0.504	12.8	208
10 AWG (183/32)	6	5	0.571	14.5	269
10 AWG (183/32)	6	7	0.681	17.3	377
8 AWG (320/32)	10	1	0.280	7.1	79
8 AWG (320/32)	10	3	0.571	14.5	274
8 AWG (320/32)	10	4	0.622	15.8	340
8 AWG (320/32)	10	5	0.677	17.2	421
6 AWG (512/32)	16	1	0.827	8.3	119
6 AWG (512/32)	16	3	0.677	17.2	406
6 AWG (512/32)	16	4	0.748	19.0	524
6 AWG (512/32)	16	5	0.835	21.2	657
4 AWG (798/32)	25	1	0.390	9.9	181
4 AWG (798/32)	25	3	0.811	20.6	618
4 AWG (798/32)	25	4	0.898	22.8	794
4 AWG (798/32)	25	5	1.000	25.4	998
2 AWG (1083/32)	35	1	0.453	11.5	243
2 AWG (1083/32)	35	4	1.039	26.4	1074
2 AWG (1083/32)	35	5	1.157	29.4	1351



## German Standard (VDE)

AWG	Cross Sectional Area mm <sup>2</sup>	no. of conductors	nominal outer- $\varnothing$		cable weight lbs/mft
			inch	mm	
1 AWG (703/28)	50	1	0.551	14.0	357
1 AWG (703/28)	50	4	1.252	31.8	1518
2/0 AWG (988/28)	70	1	0.657	16.7	500
3/0 AWG (1340/28)	95	1	0.807	20.5	685
4/0 AWG (1680/28)	120	1	0.846	21.5	836
250 MCM (2122/28)	150	1	0.969	24.6	1064
350 MCM (1472/26)	185	1	1.021	26.7	1290
450 MCM (1910/26)	240	1	1.185	30.1	1652