



## SY Steel Wire Braid Cable

### Application and Description

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SY Steel Wire Braid Cable is supplied to a wide number of industries including building and construction (often in airports), rail and transport infrastructure, transmission, distribution and power networks as well as automation and process control. SY Cable is used as interconnecting cable for measuring, controlling or regulation in signal and control equipment. This braided control cable is found frequently on assembly and production lines, conveyors, in computer units and machine tool manufacture. The SY Cable's flexible and versatile design makes it a great choice for linking fixed and mobile equipment – as well as projects where fixed installations are required. With the right protection (such as keeping it out of direct sunlight), SY Control Cable is useful for outdoor installations. The SY Flex is most suitable, however, for work in dry or moist indoor environments.

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### Standard and Approval

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BS6500, VDE0250

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### Cable Construction

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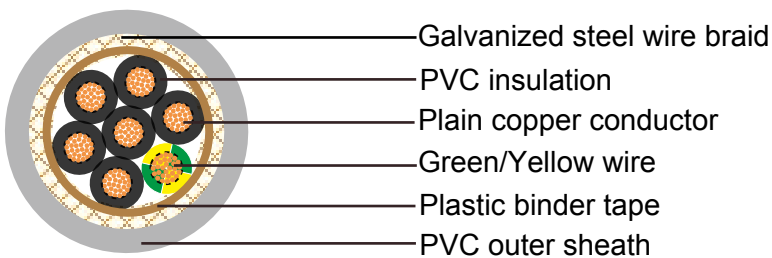
- Plain copper conductor
  - Stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 IEC 60228 cl.5
  - PVC core insulation type Y12
  - Black with White numbers
  - Green-yellow grounding (3 conductors and above)
  - PVC bedding type YM2
  - Galvanized Steel Wire Braid
  - Transparent PVC outer jacket type YM2
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## German Standard (VDE)

### Technical Characteristics

- Working voltage: 300/500 volts
- Test voltage: 3000 volts
- Minimum bending radius: 10 x Ø
- Flexing temperature: -15° C to +70° C
- Static temperature: -35° C to +70° C
- Short circuit temperature: +160° C
- Flame retardant: IEC 60332.3
- Insulation resistance: 20 MΩ x km



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### Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	Diameter over Bedding mm	Diameter over Braid mm	Nominal Overall Diameter mm	Cable Weight kg / km
20(16/32)	2 x 0.5	5.5	6.5	8.3	91
20(16/32)	3 x 0.5	5.7	6.7	8.6	99
20(16/32)	4 x 0.5	6.2	7.2	9.1	113
20(16/32)	5 x 0.5	6.7	7.7	9.7	129
20(16/32)	7 x 0.5	7.3	8.3	10.3	150
20(16/32)	12 x 0.5	9.7	10.7	12.4	214
20(16/32)	18 x 0.5	11.2	12.4	14.3	298
20(16/32)	25 x 0.5	13.7	14.9	16.8	400
20(16/32)	30 x 0.5	14.2	15.4	17.7	454
20(16/32)	35 x 0.5	15.9	17.1	19.9	585
20(16/32)	41 x 0.5	17.5	18.7	21.5	671



# Addison Industrial Cables

## German Standard (VDE)

AWG	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	Diameter over Bedding mm	Diameter over Braid mm	Nominal Overall Diameter mm	Cable Weight kg / km
20(16/32)	50 x 0.5	18.4	19.6	21.9	694
20(16/32)	60 x 0.5	20.0	21.2	24.2	895
18(24/32)	2 x 0.75	6.1	7.1	9.0	85
18(24/32)	3 x 0.75	6.4	7.4	9.3	116
18(24/32)	4 x 0.75	6.9	7.9	9.8	133
18(24/32)	5 x 0.75	7.6	8.6	10.5	155
18(24/32)	7 x 0.75	8.3	9.3	11.2	182
18(24/32)	12 x 0.75	10.8	11.8	13.7	266
18(24/32)	18 x 0.75	13.1	14.3	16.2	388
18(24/32)	25 x 0.75	15.6	16.8	19.1	521
18(24/32)	30 x 0.75	16.1	17.3	19.6	572
18(24/32)	35 x 0.75	17.9	19.1	21.4	684
18(24/32)	50 x 0.75	20.9	22.1	24.8	909
18(24/32)	60 x 0.75	22.3	23.8	26.4	1050
17(32/32)	2 x 1.0	6.3	7.3	9.3	101
17(32/32)	3 x 1.0	6.6	7.6	9.5	126
17(32/32)	4 x 1.0	7.2	8.2	10.1	146
17(32/32)	5 x 1.0	7.9	8.9	10.8	171
17(32/32)	7 x 1.0	8.6	9.6	11.5	203
17(32/32)	12 x 1.0	11.2	12.4	14.3	314
17(32/32)	18 x 1.0	13.6	14.8	16.7	441
17(32/32)	25 x 1.0	16.2	17.4	19.7	594
17(32/32)	30 x 1.0	16.8	18.0	20.3	658
17(32/32)	35 x 1.0	18.6	19.8	22.1	786
17(32/32)	50 x 1.0	21.8	23.3	25.9	1070
17(32/32)	60 x 1.0	23.6	25.1	27.7	1240
16(30/30)	2 x 1.5	6.8	7.8	9.8	114
16(30/30)	3 x 1.5	7.2	8.2	10.1	145
16(30/30)	4 x 1.5	7.9	8.9	10.8	171
16(30/30)	5 x 1.5	8.7	9.7	11.6	202
16(30/30)	7 x 1.5	9.5	10.5	12.4	242
16(30/30)	12 x 1.5	12.8	14.0	15.9	394
16(30/30)	18 x 1.5	15.1	16.3	18.6	553
16(30/30)	25 x 1.5	18.4	19.6	21.9	746
16(30/30)	30 x 1.5	19.1	20.3	23.0	850
16(30/30)	35 x 1.5	20.7	21.9	24.6	990
16(30/30)	50 x 1.5	24.7	26.2	29.2	1380
16(30/30)	60 x 1.5	26.3	27.8	30.8	1570
14(30/50)	2 x 2.5	8.0	9.0	11.0	143
14(30/50)	3 x 2.5	8.5	9.5	11.4	193
14(30/50)	4 x 2.5	9.4	10.4	12.3	232
14(30/50)	5 x 2.5	10.3	11.3	13.2	277



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AWG	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	Diameter over Bedding mm	Diameter over Braid mm	Nominal Overall Diameter mm	Cable Weight kg / km
14(30/50)	7 x 2.5	11.3	12.5	14.4	353
14(30/50)	12 x 2.5	15.3	16.5	18.8	575
14(30/50)	18 x 2.5	18.5	19.7	22.0	818
14(30/50)	25 x 2.5	22.1	23.6	26.2	1130
14(30/50)	30 x 2.5	23.4	24.9	27.5	1290
14(30/50)	35 x 2.5	25.3	26.8	29.8	1540
14(30/50)	50 x 2.5	29.8	31.3	34.7	2060
14(30/50)	60 x 2.5	31.7	33.2	36.6	2350
12(56/28)	2 x 4.0	10.8	11.8	13.8	240
12(56/28)	3 x 4.0	11.5	12.8	14.8	312
12(56/28)	4 x 4.0	12.7	13.9	15.8	384
12(56/28)	5 x 4.0	14.0	15.2	17.5	478
12(56/28)	7 x 4.0	15.3	16.5	18.8	587
10(84/28)	2 x 6.0	12.2	13.4	15.4	316
10(84/28)	3 x 6.0	13.0	14.2	16.2	407
10(84/28)	4 x 6.0	14.4	15.6	17.9	508
10(84/28)	5 x 6.0	15.9	17.1	19.4	617
10(84/28)	7 x 6.0	17.9	19.1	21.4	789
8(80/26)	2 x 10.0	15.3	16.5	18.9	467
8(80/26)	3 x 10.0	16.5	17.7	20.1	621
8(80/26)	4 x 10.0	18.4	19.6	21.9	779
8(80/26)	5 x 10.0	20.4	21.6	24.3	978
8(80/26)	7 x 10.0	22.4	23.9	26.5	1250
6(128/26)	3 x 16.0	19.7	20.8	23.8	857
6(128/26)	4 x 16.0	21.4	22.7	25.5	1040
6(128/26)	5 x 16.0	24.1	25.4	28.6	1300
4(200/26)	3 x 25.0	21.4	22.7	25.5	1110
4(200/26)	4 x 25.0	23.8	25.1	27.2	1350
4(200/26)	5 x 25.0	26.4	27.7	31.3	1740
4(200/26)	5 x 35.0	-	-	36	3185