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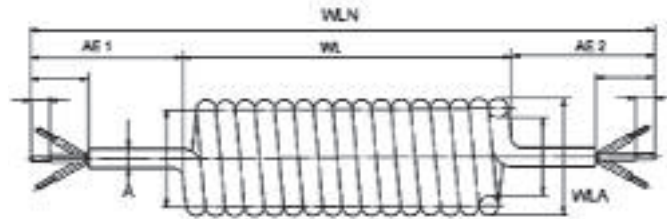
*Spiral cables*

# Spiral cables of Semoflex® Electronic screened

## PUR spiral cables

### Halogen free

#### Description



#### Application

The spiral cables can be used for electronic applications (e. g. medical equipment, measuring instruments, car industry). Because of the polyurethane outer sheath and Semocore® core insulation can be achieved a high reset power and a long service life, even for spiral cables of 0,14-0,5 mm<sup>2</sup>. The screened design allows a high reset power due to the special finest helical copper screen.

#### Design

Conductor:	plain copper according to VDE 0295 0,14 mm <sup>2</sup> (18x0,10 mm) / 0,25 mm <sup>2</sup> (14x0,15 mm) 0,50mm <sup>2</sup> (28x0,15 mm)
Insulation:	Semocore®
Core colour:	according to DIN 47 100
Core arrangement:	cores twisted around in concentric layers, twisted with special length of lay
Screening:	plain copper screen covers approx. 90%
Sheath:	PUR 11YM1
Sheath colour:	black, shiny, other colours on request
Imprint:	without imprint

#### Thermal properties

Maximum temperature: - 30°C up to + 80°C

#### Technical data in case of 20°C

Nominal voltage:	300 V
Test voltage:	core/core 2.000 V core/screen 1.000 V
Conductor resistance:	according to VDE 0295 class 5 or 6
Insulation resistance:	> 20 MOhm x km

#### Features

Spiral length:	up to 3.000 mm
Extended length:	up to 4 times spiral length
Straight ends:	standard ends 200 / 200 mm straight ends are available up to 25 meters standard: axial ends, other solutions upon request
Oil resistance:	according to DIN VDE 0472 part 803, test type B
Halogen free:	the used materials are halogen free

#### Particularity

- a production is possible from 1 piece
- this type is available with individual customer's imprint
- microbe-proof
- resistant against oils and acids
- abrasion-proof
- flexible at lower temperatures

**Spiral cables of Semoflex® Electronic screened**  
**Halogen free**  
**Spiral length 200 mm - 1.500 mm**

Cross-section mm <sup>2</sup>	Colour	Mandrel	Outer Ø cable approx. mm	Outer Ø spiral cable approx. mm
1 x 0,14	BK	6 mm	2,4	11 - 16
2 x 0,14	BK	8 mm	4,1	16 - 21
3 x 0,14	BK	8 mm	4,3	17 - 22
4 x 0,14	BK	8 mm	4,5	17 - 22
5 x 0,14	BK	8 mm	5,0	18 - 23
6 x 0,14	BK	8 mm	5,3	19 - 24
7 x 0,14	BK	10 mm	5,5	21 - 26
8 x 0,14	BK	10 mm	6,0	22 - 27
10 x 0,14	BK	10 mm	6,2	23 - 28
12 x 0,14	BK	10 mm	6,4	23 - 28
18 x 0,14	BK	12 mm	7,4	27 - 32
25 x 0,14	BK	14 mm	9,0	32 - 37
2 x 0,25	BK	8 mm	4,5	17 - 22
3 x 0,25	BK	8 mm	4,7	18 - 23
4 x 0,25	BK	8 mm	5,0	18 - 23
5 x 0,25	BK	8 mm	5,9	20 - 25
6 x 0,25	BK	8 mm	6,2	21 - 26
8 x 0,25	BK	10 mm	6,6	23 - 28
12 x 0,25	BK	12 mm	7,4	27 - 32
18 x 0,25	BK	14 mm	9,2	33 - 38
25 x 0,25	BK	16 mm	10,2	37 - 42
2 x 0,34	BK	8 mm	4,8	18 - 23
3 x 0,34	BK	8 mm	5,0	18 - 23
4 x 0,34	BK	8 mm	5,3	19 - 24
5 x 0,34	BK	8 mm	5,9	20 - 25
6 x 0,34	BK	10 mm	6,4	23 - 28
7 x 0,34	BK	10 mm	6,8	24 - 29
8 x 0,34	BK	12 mm	7,2	27 - 32
12 x 0,34	BK	12 mm	8,0	28 - 33
18 x 0,34	BK	14 mm	9,1	33 - 38
25 x 0,34	BK	18 mm	11,0	40 - 45
2 x 0,50	BK	8 mm	5,4	19 - 24
3 x 0,50	BK	10 mm	5,7	21 - 26
4 x 0,50	BK	10 mm	6,0	22 - 27
6 x 0,50	BK	12 mm	7,0	26 - 31
8 x 0,50	BK	12 mm	8,6	29 - 34
12 x 0,50	BK	14 mm	9,2	33 - 38
18 x 0,50	BK	16 mm	10,8	38 - 43
25 x 0,50	BK	18 mm	12,7	44 - 49

BK = black

**Options:** The indicated outer spiral diameters are estimated values which can be changed during movement. Other outer diameters would be possible on request.

**Special designs up to 3.000 mm as maximum block length would be possible.**

**Other designs, diameters as well as colours are available upon request.**

**Spiral cables of Semoflex® Electronic screened****Halogen free****Straight ends 200/200 mm, axial**

Cross-section mm <sup>2</sup>	Block length mm			
	200	300	400	500
1 x 0,14	10,72	12,70	14,73	16,84
2 x 0,14	11,55	13,83	16,18	18,59
4 x 0,14	12,57	15,20	17,97	20,81
5 x 0,14	12,61	15,30	18,05	20,87
6 x 0,14	12,64	15,33	18,08	20,90
7 x 0,14	13,46	16,46	19,61	22,82
8 x 0,14	13,54	16,62	19,77	22,98
10 x 0,14	15,53	19,44	23,40	27,44
12 x 0,14	15,60	19,52	23,50	27,56
18 x 0,14	21,95	28,53	35,17	41,88
25 x 0,14	26,92	35,53	44,20	52,94
2 x 0,25	12,06	14,54	17,08	19,70
3 x 0,25	12,55	15,23	17,97	20,78
4 x 0,25	13,29	16,19	19,22	22,33
5 x 0,25	13,37	16,33	19,36	22,45
6 x 0,25	14,47	17,86	21,32	24,85
8 x 0,25	16,16	20,30	24,50	28,77
12 x 0,25	19,67	25,29	30,98	36,74
16 x 0,25	23,18	30,31	37,49	44,75
18 x 0,25	25,75	33,86	42,03	50,27
25 x 0,25	33,87	45,36	56,91	68,54
2 x 0,34	12,77	15,53	18,36	21,26
3 x 0,34	13,88	17,10	20,38	23,73
4 x 0,34	14,60	18,10	21,65	25,28
5 x 0,34	17,05	21,51	26,04	30,63
6 x 0,34	18,28	23,31	28,40	33,57
7 x 0,34	19,95	25,64	31,39	37,22
8 x 0,34	20,92	27,08	33,31	39,60
12 x 0,34	24,10	31,52	38,99	46,54
18 x 0,34	33,78	45,22	56,71	68,28
25 x 0,34	43,22	58,66	74,15	89,72
2 x 0,50	12,57	15,22	17,94	20,73
3 x 0,50	14,12	17,46	20,87	24,35
4 x 0,50	15,19	18,96	22,80	26,71
5 x 0,50	15,92	19,96	24,06	28,24
6 x 0,50	18,28	23,27	28,32	33,44
8 x 0,50	20,16	25,91	31,72	37,60
12 x 0,50	24,78	32,49	40,25	48,09
18 x 0,50	32,85	43,85	54,92	66,06
25 x 0,50	42,97	58,08	73,25	88,50

## Unit prices (Euro)

600	700	800	900	1000	1200	1500
19,03	21,34	23,80	26,43	29,32	39,52	47,36
21,10	23,72	26,48	29,43	32,62	44,07	52,99
23,74	26,72	29,89	33,25	36,84	49,96	60,22
23,79	26,81	29,98	33,33	36,94	50,02	60,35
23,82	26,84	30,01	33,36	36,97	50,05	60,38
26,13	29,48	33,03	36,76	40,73	55,35	66,90
26,29	29,71	33,28	37,03	41,03	55,68	67,39
31,57	35,81	40,19	44,76	49,58	67,51	82,07
31,70	35,96	40,36	44,95	49,78	67,78	82,40
48,69	55,60	62,66	69,90	77,39	105,97	129,84
61,77	70,71	79,80	89,07	98,59	135,27	166,19
22,40	25,22	28,18	31,33	34,72	46,97	56,58
23,68	26,69	29,85	33,19	36,78	49,18	60,11
25,53	28,78	32,23	35,85	39,72	53,93	65,12
25,64	28,94	32,38	36,00	39,88	54,06	65,34
28,47	32,20	36,07	40,13	44,43	60,35	73,14
33,14	37,62	42,24	47,04	52,09	70,97	86,35
42,59	48,55	54,66	60,95	67,49	92,27	112,82
52,10	59,56	67,16	74,95	82,99	113,73	139,50
58,60	67,04	75,62	84,39	93,41	128,10	157,28
80,25	92,08	104,05	116,21	128,61	176,79	217,75
24,25	27,35	30,59	34,02	37,70	51,08	61,68
27,17	30,72	34,42	38,30	42,43	57,62	69,79
29,00	32,84	36,81	40,97	45,38	61,69	74,83
35,32	40,12	45,06	50,19	55,57	75,74	92,25
38,82	44,19	49,70	55,40	61,34	83,76	102,24
43,13	49,16	55,33	61,68	68,29	93,35	114,12
45,99	52,49	59,13	65,96	73,04	99,95	122,38
54,17	61,92	69,82	77,90	86,22	118,15	144,92
79,94	91,71	103,62	115,72	128,07	176,02	216,79
105,38	121,15	137,06	153,16	169,51	233,37	288,06
23,60	26,60	29,73	33,05	36,62	49,56	59,77
27,91	31,59	35,42	39,42	43,68	59,36	71,97
30,70	34,81	39,07	43,51	48,19	65,59	79,70
32,51	36,89	41,41	46,11	51,07	69,55	84,59
38,65	43,98	49,45	55,10	61,00	83,27	101,60
43,57	49,66	55,89	62,30	68,96	94,26	115,24
56,02	64,06	72,25	80,62	89,23	122,32	150,11
77,29	88,63	100,12	111,79	123,71	169,97	209,25
103,83	119,28	134,87	150,64	166,66	229,31	282,87

Special designs up to 3.000 mm as maximum block length would be possible.