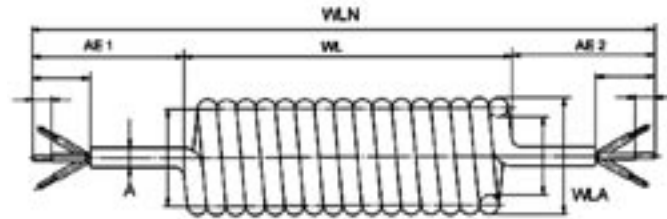


Spiral cables of Semoflex® Roboschlepp® Halogen free

Description



Application

Semoflex® Roboschlepp® spiral cables are suitable for mostly arduous applications e. g. for robots, electric doors, heavy-duty machines, lifting ramps (also for outdoor use) and drilling machines. They are used where high quality and long service life are required. They have also a high reset power at low temperatures.

Design

Conductor: plain copper, fine stranded according to VDE 0295 class 6
 Insulation: Semocore®
 Core colour: up to 0,34 mm² according to DIN 47 100
 from 0,5 mm² white cores with black numbers
 from 3 cores with green/yellow earth conductor
 Core arrangement: cores twisted around with concentric layers
 Sheath: polyurethane, low adhesive
 Sheath colour: grey, preferred RAL 7001
 Imprint: Semoflex® Roboschlepp® core x cross-section

Thermal properties

Maximum temperature: - 40°C up to + 90°C

Technical data in case of 20°C

Nominal voltage: 0,14 - 0,34 mm² 350 V
 from 0,5 mm² 300/500 V
 Test voltage: up to 1,5 mm² 2.000 V
 2,5 - 4,0 mm² 2.500 V
 from 6 mm² 3.000 V
 Conductor resistance: according to VDE 0295 class 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 on request
 Oil resistance: according to VDE 0472
 Halogen free: the used materials are halogen free
 Applied standards: similar to VDE 0250

Particularity

- a production is possible from 1 piece
- this cable is available with individual customer's imprint
- microbe-proof as far as possible
- resistant against oils and acids as far as possible
- abrasion-proof

Spiral cables of Semoflex® Roboschlepp® Halogen free Spiral length up to 3.000 mm

Cross-section mm ²	Colour	Mandrel	Outer Ø cable approx. mm	Outer Ø spiral approx. mm
3 x 0,34	GY	8 mm	4,2	17 - 22
18 x 0,34	GY	8 mm	8,6	26 - 31
2 x 0,50	GY	10 mm	4,5	19 - 25
3 x 0,50	GY	10 mm	4,7	20 - 25
4 x 0,50	GY	12 mm	5,3	22 - 27
5 x 0,50	GY	14 mm	5,9	26 - 31
7 x 0,50	GY	14 mm	6,9	28 - 33
12 x 0,50	GY	14 mm	8,5	31 - 36
25 x 0,50	GY	16 mm	11,5	39 - 44
2 x 0,75	GY	8 mm	5,3	19 - 24
3 x 0,75	GY	8 mm	5,5	19 - 24
4 x 0,75	GY	10 mm	6,0	22 - 27
5 x 0,75	GY	10 mm	6,5	23 - 28
7 x 0,75	GY	12 mm	7,6	27 - 32
12 x 0,75	GY	14 mm	9,3	33 - 38
14 x 0,75	GY	14 mm	9,8	34 - 39
18 x 0,75	GY	14 mm	10,8	36 - 41
25 x 0,75	GY	16 mm	12,7	42 - 47
2 x 1	GY	8 mm	5,7	20 - 25
3 x 1	GY	10 mm	6,0	22 - 27
4 x 1	GY	10 mm	6,4	23 - 28
5 x 1	GY	10 mm	7,0	24 - 29
7 x 1	GY	12 mm	8,3	29 - 34
8 x 1	GY	14 mm	9,3	33 - 38
12 x 1	GY	16 mm	10,2	37 - 42
18 x 1	GY	18 mm	11,8	42 - 47
25 x 1	GY	24 mm	14,0	52 - 57
2 x 1,5	GY	10 mm	6,1	22 - 27
3 x 1,5	GY	10 mm	6,4	23 - 28
4 x 1,5	GY	12 mm	7,0	26 - 31
5 x 1,5	GY	12 mm	7,6	27 - 32
7 x 1,5	GY	18 mm	9,4	37 - 42
12 x 1,5	GY	18 mm	11,0	40 - 45
18 x 1,5	GY	20 mm	12,8	46 - 51
25 x 1,5	GY	28 mm	15,2	59 - 64
3 x 2,5	GY	12 mm	8,3	29 - 34
4 x 2,5	GY	12 mm	9,1	30 - 35
5 x 2,5	GY	14 mm	9,9	34 - 39
7 x 2,5	GY	18 mm	11,7	42 - 47
12 x 2,5	GY	24 mm	13,9	52 - 57

GY = grey

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

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

Spiral cables of Semoflex® Roboschlepp® grey
Halogen free
Straight ends 200/200 mm, axial

Unit prices (Euro)

Cross-section mm ²	Block length					
	mm	400	500	700	800	
	300					
3 x 0,34	13,49	15,76	18,03	24,03	26,80	
18 x 0,34	35,03	42,94	52,05	68,63	77,42	
2 x 0,50	12,92	15,01	17,09	22,74	25,32	
3 x 0,50	14,01	16,43	18,84	25,11	28,01	
4 x 0,50	15,65	18,52	21,37	28,57	31,92	
5 x 0,50	17,87	21,36	24,85	33,29	37,25	
7 x 0,50	23,76	28,42	34,27	44,33	49,87	
12 x 0,50	32,21	39,31	47,60	62,55	70,54	
25 x 0,50	55,20	68,96	83,93	112,21	126,87	
2 x 0,75	14,19	16,62	19,06	25,40	28,32	
3 x 0,75	15,89	18,82	21,74	29,05	32,47	
4 x 0,75	18,53	22,26	26,00	34,92	39,14	
5 x 0,75	20,02	24,17	28,31	38,07	42,69	
7 x 0,75	26,90	32,51	39,31	51,26	57,75	
12 x 0,75	35,42	43,39	52,56	69,26	78,12	
14 x 0,75	41,03	50,69	61,56	81,65	92,21	
18 x 0,75	46,68	57,91	70,34	93,54	105,66	
25 x 0,75	57,07	71,27	86,67	115,83	130,92	
2 x 1,00	14,60	17,15	19,70	26,25	29,28	
3 x 1,00	17,65	21,11	24,59	33,00	36,96	
4 x 1,00	19,42	23,39	27,37	36,77	41,23	
5 x 1,00	21,28	25,77	30,26	40,70	45,67	
7 x 1,00	28,53	34,57	41,80	53,89	60,67	
8 x 1,00	32,22	39,28	47,53	61,63	69,44	
12 x 1,00	47,09	58,36	69,62	93,78	105,04	
18 x 1,00	57,85	72,14	86,42	116,62	130,91	
25 x 1,00	78,41	98,88	119,36	161,94	182,41	
2 x 1,50	16,90	20,15	23,40	31,36	35,10	
3 x 1,50	19,49	23,48	27,48	36,93	41,41	
4 x 1,50	21,68	26,29	30,89	41,58	46,67	
5 x 1,50	27,39	33,40	40,32	53,55	59,56	
7 x 1,50	33,14	40,46	48,97	63,59	71,65	
12 x 1,50	53,66	66,80	79,93	107,83	120,95	
18 x 1,50	70,47	88,48	106,49	144,14	162,15	
25 x 1,50	99,94	126,89	153,85	209,41	236,36	
36 x 1,50	125,43	159,62	193,79	263,79	297,97	
3 x 2,50	28,99	35,43	42,78	56,86	63,30	
4 x 2,50	32,88	40,40	48,84	65,08	72,59	
5 x 2,50	39,63	48,88	59,35	77,85	87,86	
7 x 2,50	58,89	73,85	89,99	119,89	135,60	
12 x 2,50	82,97	105,46	128,12	171,94	194,24	

	1000	1200	1500	1600	2000	2500	3000
	32,53	39,78	47,89	51,78	71,17	105,64	130,49
	94,31	111,43	135,16	143,08	197,52	284,34	367,86
	30,69	37,57	45,14	48,85	67,04	99,69	122,76
	34,02	41,53	50,06	54,10	74,41	110,27	136,49
	38,84	47,27	57,16	61,64	84,99	125,46	156,15
	45,43	55,09	66,85	71,96	99,47	146,22	183,05
	60,24	70,85	84,80	89,46	122,16	176,15	227,63
	85,79	101,29	122,58	129,68	178,68	257,30	332,82
	155,46	184,29	225,59	239,35	332,82	478,65	619,74
	34,39	41,97	50,58	54,64	75,14	111,31	137,81
	39,52	48,07	58,14	62,69	86,45	127,54	158,84
	47,81	57,97	70,47	75,82	104,96	154,16	193,38
	52,18	63,18	76,91	82,69	114,57	167,96	211,25
	70,02	82,52	99,33	104,93	143,96	207,48	268,28
	95,14	112,39	136,31	144,29	199,18	286,66	370,83
	112,61	133,25	162,26	171,92	238,08	342,61	443,40
	129,18	152,94	186,63	197,86	274,46	394,76	510,94
	160,38	190,09	232,70	246,91	343,33	493,62	639,03
	35,57	43,37	52,30	56,47	77,71	114,98	142,55
	45,11	54,74	66,47	71,56	98,96	145,54	182,21
	50,38	61,02	74,25	79,85	110,59	157,15	198,34
	55,86	67,53	82,30	88,42	122,62	174,40	220,65
	73,64	86,78	106,20	112,24	154,19	225,76	287,25
	84,44	99,61	122,07	129,13	177,86	259,70	331,18
	128,63	152,45	187,85	199,11	278,37	398,27	511,03
	160,54	190,41	234,89	249,18	348,63	499,07	641,58
	224,42	266,67	329,70	350,17	490,79	703,44	906,70
	42,80	52,00	63,04	67,92	93,83	133,10	167,15
	50,60	61,29	74,57	80,19	111,08	157,86	199,24
	57,09	69,00	84,12	90,36	125,34	178,30	225,72
	73,22	86,31	105,64	111,66	153,41	224,68	285,89
	87,17	102,86	126,09	133,41	183,88	268,33	342,37
	148,27	175,84	216,85	229,98	321,71	456,84	591,61
	199,23	236,55	292,19	310,20	434,45	618,73	801,46
	291,35	346,57	429,07	456,03	639,77	914,02	1.184,59
	367,38	437,05	541,21	575,39	807,35	1.154,47	1.496,09
	77,81	91,75	112,37	118,81	163,43	235,40	300,51
	89,28	105,38	129,24	136,76	188,61	275,14	351,21
	107,27	126,84	155,91	165,17	228,57	332,57	425,69
	166,39	197,35	243,50	258,45	359,77	521,09	670,14
	237,45	282,28	347,10	369,67	516,85	740,89	960,78