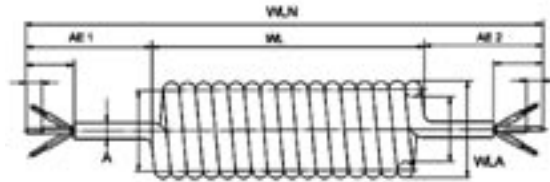


## Spiral cables of H05BQ-F / H07BQ-F

Halogen free

### Description



### Application

Our spiral cables of Semoflex® H05BQ-F/H07BQ-F are suitable for most arduous applications e. g. for robots, electric doors, heavy-duty machines, lifting ramps (also for outdoor use) and drilling machines. At the Materials Testing Institute in Hannover the cables withstood over 1 million operations without any failure. Therefore they are used where high quality and long service life are required. Also at low temperatures they have a high reset power.

### Design

Conductor: plain or tinned copper, fine stranded according to VDE 0295 class 5 (IEC 228)  
 Insulation: Neoprene 3GI3 according to VDE 0207 part 20  
 Core colour: up to 5 cores coloured according to VDE 0293, from 6 cores with black numbers  
 Core arrangement: cores twisted around in concentric layers  
 Sheath: polyurethane 11YM1 according to VDE 0250 part 818  
 Sheath colour: orange RAL 2003  
 Imprint: e. g. Semoflex® H07BQ-F

### Thermal properties

Maximum temperature: - 25°C up to +80°C

### Technical data in case of 20°C

Nominal voltage: H05BQ-F 300/500 V  
 H07BQ-F 450/750 V  
 Test voltage: H05BQ-F core/core 2.000 V  
 H07BQ-F core/core 2.500 V  
 Conductor resistance: according to VDE 0295 class 5 (IEC 228)  
 Insulation resistance: > 20 MOhm x km

### Features

Spiral length: up to 3.000 mm (5x10 mm<sup>2</sup> and 5x16 mm<sup>2</sup> on request)  
 Extended length: up to 5 times spiral length  
 5x10 mm<sup>2</sup> and 5x16 mm<sup>2</sup> on request  
 Straight ends: standard ends 200 / 200 mm  
 straight ends are available up to 25 meters  
 standard: axial ends, other solutions on request  
 Arrangement: cores twisted around with short length of lay  
 Oil resistance: according to VDE 0472 part 803, test type B  
 Halogen free: the used materials are halogen free  
 except 5x10 mm<sup>2</sup> und 5x16 mm<sup>2</sup>  
 Applied standards: the basic material is harmonized according to HD 22.10

### Particularity

- a production is possible from 1 piece
- individual customer's imprint is possible
- resistant against oils and acids as far as possible
- microbe-proof as far as possible
- abrasion-proof
- high radiation resistance

## Spiral cables of H05BQ-F / H07BQ-F

Halogen free  
 Spiral length up to 3.000 mm

Cross-section mm <sup>2</sup>	Colour	Mandrel	Outer Ø cable approx. mm	Outer Ø spiral cable approx. mm
2 x 0,75	OG	8 mm	6,4	21 - 26
3 x 0,75	OG	8 mm	7,0	22 - 27
4 x 0,75	OG	10 mm	7,8	26 - 31
5 x 0,75	OG	10 mm	8,5	27 - 32
2 x 1,00	OG	8 mm	6,9	22 - 27
3 x 1,00	OG	8 mm	7,3	23 - 28
4 x 1,00	OG	10 mm	7,8	26 - 31
5 x 1,00	OG	12 mm	8,8	30 - 35
2 x 1,50	OG	10 mm	8,4	27 - 32
3 x 1,50	OG	10 mm	8,6	27 - 32
4 x 1,50	OG	12 mm	9,9	32 - 37
5 x 1,50	OG	14 mm	10,8	36 - 41
7 x 1,50	OG	18 mm	12,8	44 - 49
12 x 1,50	OG	28 mm	16,7	62 - 67
3 x 2,50	OG	14 mm	10,6	35 - 40
4 x 2,50	OG	16 mm	11,8	40 - 45
5 x 2,50	OG	18 mm	13,1	44 - 49
5 x 4,00	OG	28 mm	15,4	59 - 64
5 x 6,00	OG	28 mm	18,3	65 - 70

OG = orange

**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 H05BQ-F/H07BQ-F  
Halogen free  
Straight ends: 200/200 mm, axial

Unit prices (Euro)

Cross-section mm <sup>2</sup>	Block length mm	200		
		300	500	800
2 x 0,75	9,59	11,12	14,15	20,65
3 x 0,75	9,97	11,62	14,92	21,84
4 x 0,75	11,16	13,19	17,43	25,73
5 x 0,75	12,13	14,67	19,73	29,28
2 x 1,00	10,02	11,70	15,04	22,01
3 x 1,00	10,35	12,15	15,75	23,10
4 x 1,00	11,71	14,08	18,82	27,87
5 x 1,00	13,43	16,54	22,74	34,00
2 x 1,50	11,69	14,03	18,73	27,73
3 x 1,50	12,19	14,73	19,81	29,37
4 x 1,50	13,95	17,22	23,76	35,53
5 x 1,50	16,48	20,38	29,09	42,00
7 x 1,50	21,66	27,31	39,84	57,56
12 x 1,50	35,68	46,81	69,10	104,14
3 x 2,50	17,26	21,50	30,88	44,78
4 x 2,50	19,79	25,06	36,53	53,55
5 x 2,50	22,50	28,50	41,72	60,51
3 x 4,00	26,51	33,48	49,39	71,61
4 x 4,00	30,95	39,67	59,06	86,53
5 x 4,00	33,90	44,88	68,03	101,72
3 x 6,00	34,56	44,76	67,12	99,04
4 x 6,00	41,52	54,98	83,85	125,51
5 x 6,00	42,96	56,81	86,45	129,28

1000	1200	1500	2000	2500	3000
24,88	30,62	36,47	54,01	80,92	98,39
26,35	32,35	38,62	57,19	85,50	104,32
31,16	38,10	45,76	67,90	100,87	124,25
35,55	43,31	52,22	77,54	114,70	142,17
26,57	32,61	38,94	57,68	86,18	105,20
27,90	34,20	40,90	60,60	90,38	110,63
33,81	41,24	49,66	73,72	104,15	129,58
41,41	50,31	60,92	90,59	128,40	161,03
33,62	41,02	49,36	73,27	103,48	128,70
35,65	43,42	52,33	77,70	109,83	136,92
43,27	52,52	63,63	94,63	134,16	168,46
51,43	60,30	73,30	104,91	154,95	195,42
69,76	82,14	100,42	145,50	213,25	271,00
127,48	151,05	186,08	275,67	390,71	505,90
54,89	64,41	78,41	112,57	162,33	205,77
65,73	77,35	94,46	136,60	200,49	254,47
73,41	86,49	105,82	153,59	224,88	286,08
85,57	101,15	130,04	179,79	256,58	332,75
103,98	123,04	158,94	220,33	314,74	408,10
124,56	147,58	181,82	269,42	388,82	498,79
119,45	141,48	183,33	254,60	363,96	471,90
152,42	180,97	235,77	328,63	a.A.	a.A.
156,98	186,30	242,70	338,18	a.A.	a.A.