SiHFP Cable

Cable Application

A high temperature silicone cable with steel wire braid - suitable for industrial areas where PVC insulated cables become brittle with increased temperature and mechanical requirements for example mechanical engineering, glass and ceramic fabrication and steel / iron fabrication. The steel wire braid protects the sheath against mechanical stress. Should the cable burn, an insulation silicon dioxide layer will remain on the conductor to render it short circuit proof.

Technical Information

Conductor: Stranded conductor of tinned copper wire
According to VDE 0295 class 5, IEC 60228

Insulation Resistance: Minimum 20 MΩ x km at 20°C

Armouring: Galvanised steel wire braid

Sheath: Silicone outer sheath, red - brown

Colours: To VDE 0293, more than six cores black with printed numbers in layers

Twisting: Cores twisted in layers

Rated Voltage U0/U: 300/500V

Test Voltage: 2000V

Temperature Range: -50°C up to 180°C • **Short term:** +200°C

Minimum Bending Radius: **Flexing:** 20 x Ø • **Static:** 10 x Ø

Halogen Free: To VDE 0472 part 813 and IEC 754-1

Number of cores x cross section mm²	Maximum Ω of single wire mm	Maximum strand diameter mm	Core diameter mm ± 5%	o.d. mm ± 5%	Copper weight kg/km	Weight approx. kg/km
2 x 0.75	0.21	1.16	2.26	7.2	14.4	88
3 x 0.75	0.21	1.16	2.26	7.6	21.6	99
4 x 0.75	0.21	1.16	2.26	8.1	29	121
5 x 0.75	0.21	1.16	2.26	9.2	36	147
6 x 0.75	0.21	1.16	2.26	9.9	43	169
7 x 0.75	0.21	1.16	2.26	9.9	50	178
2 x 1	0.21	1.35	2.44	7.6	19	98
3 x 1	0.21	1.35	2.44	8.0	29	119
4 x 1	0.21	1.35	2.44	8.8	38	139
5 x 1	0.21	1.35	2.44	9.7	48	167
6 x 1	0.21	1.35	2.44	10.4	58	185
7 x 1	0.21	1.35	2.44	10.4	67	194
2 x 1.5	0.26	1.61	2.70	8.3	29	126
3 x 1.5	0.26	1.61	2.70	8.7	43	143
4 x 1.5	0.26	1.61	2.70	9.6	58	170
5 x 1.5	0.26	1.61	2.70	10.4	72	198
6 x 1.5	0.26	1.61	2.70	11.4	86	245
7 x 1.5	0.26	1.61	2.70	11.4	101	256
8 x 1.5	0.26	1.61	2.70	12.7	116	315
10 x 1.5	0.26	1.61	2.70	14.0	144	370

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12 x 1.5	0.26	1.61	2.70	14.5	173	408
14 x 1.5	0.26	1.61	2.70	15.6	202	471
16 x 1.5	0.26	1.61	2.70	17.0	231	541
18 x 1.5	0.26	1.61	2.70	17.8	260	599
20 x 1.5	0.26	1.61	2.70	18.3	288	630
24 x 1.5	0.26	1.61	2.70	20.4	346	760
2 x 2.5	0.26	2.05	3.31	9.7	48	165
3 x 2.5	0.26	2.05	3.31	10.2	72	238
4 x 2.5	0.26	2.05	3.31	11.5	96	268
5 x 2.5	0.26	2.05	3.31	12.7	120	315
6 x 2.5	0.26	2.05	3.31	13.7	144	370
7 x 2.5	0.26	2.05	3.31	13.7	168	385
12 x 2.5	0.26	2.05	3.31	17.6	288	608
2 x 4	0.31	2.58	4.01	11.5	77	255
3 x 4	0.31	2.58	4.01	12.2	115	299
4 x 4	0.31	2.58	4.01	13.4	154	365
5 x 4	0.31	2.58	4.01	15.1	192	455
6 x 4	0.31	2.58	4.01	16.4	230	525
7 x 4	0.31	2.58	4.01	16.4	269	556
2 x 6	0.31	3.22	4.61	12.9	115	326
3 x 6	0.31	3.22	4.61	13.7	173	401
4 x 6	0.31	3.22	4.61	14.8	230	485
5 x 6	0.31	3.22	4.61	16.8	288	602
6 x 6	0.31	3.22	4.61	18.2	346	701
7 x 6	0.31	3.22	4.61	18.2	403	736
2 x 10	0.41	4.78	6.51	17.3	192	543
3 x 10	0.41	4.78	6.51	18.4	288	652
4 x 10	0.41	4.78	6.51	20.6	384	825
5 x 10	0.41	4.78	6.51	22.5	480	987
2 x 16	0.41	6.0	7.66	20.2	308	748
3 x 16	0.41	6.0	7.66	21.5	462	909
4 x 16	0.41	6.0	7.66	23.4	616	1183
5 x 16	0.41	6.0	7.66	26.2	770	1393
2 x 25	0.41	7.45	9.46	23.8	480	1046
3 x 25	0.41	7.45	9.46	26	720	1347
4 x 25	0.41	7.45	9.46	28.3	960	1678
2 x 35	0.41	8.93	10.86	27.2	672	1378
3 x 35	0.41	8.93	10.86	29	1008	1846
4 x 35	0.41	8.93	10.86	32.3	1344	2240
2 x 50	0.41	10.4	12.66	31.4	960	1869

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Number of cores x cross section mm²	Maximum Ω of single wire mm	Maximum strand diameter mm	Core diameter mm ± 5%	o.d. mm ± 5%	Copper weight kg/km	Weight approx. kg/km
3 x 50	0.41	10.4	12.66	33.5	1440	2384
4 x 50	0.41	10.4	12.66	37.2	1920	2702
2 x 70	0.51	12.44	14.61	35.3	1344	2482
3 x 70	0.51	12.44	14.61	38.3	2016	3314
4 x 70	0.51	12.44	14.61	42.5	2688	4074
2 x 95	0.51	14.9	17.36	41.4	1824	3380
3 x 95	0.51	14.9	17.36	44.8	2736	4299
4 x 95	0.51	14.9	17.36	49.8	3648	5339
3 x 120	0.51	16.53	18.91	48.8	3465	5277
4 x 120	0.51	16.53	18.91	54.1	4620	6571

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For the current ratings refer to the IEE Regulations tables 4F2A and B to 4F3A and B on pages 124 to 128.