



SiHF-GLP - Silicone Multi-Core Overall Stainless Steel Braid



Product application:

SiHF-GLP is a special 180 Degree C. silicone multi-core cable with an overall steel braid for use in high and low temperature areas or whenever the insulation is subject to extreme temperature changes. These cables are mainly found in steel producing industry and aviation industry as well as in ship building, cement, glass and ceramic factories. SiHF-GLP cables are low-smoke and halogen-free especially suited for use in power stations. The silicone jacket provides added heat, chemical, oil and acidic resistance. The external galvanized steel braid ensures excellent mechanical protection and disturbance-free transmissions of signals and impulses. Not permitted for outdoor use.

Product characteristic:

Construction:

- Tinned copper conductors to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Silicone conductor insulation
- Conductor identification to DIN VDE 0293-308 color coded or black conductors with continuous white numbers
- For 2-conductors brown, blue
- Conductors stranded in layers with optimal lay-length
- Green-yellow earth-conductor (3 conductors and above)
- Outer jacket of silicone
- Jacket color preferably red brown
- Glass fibre tape over the jacket
- Galvanized steel wire outer braiding

Technical:

- Special silicone multi conductor cable with higher heat-resistance range adapted to DIN VDE 0250 part 1 and part 816
- Temperature range: -60°C to +180°C
- Short time temp up to +220° C



- Temperature limit at the conductor in operation +180°C
- Nominal voltage : 300/500 V
- Test voltage :2000 V
- Insulation resistance: min.200 MΩ x km
- Minimum bending radius: flexing 10 x cable Ø
fixed installation 5 x cable Ø
- Radiation resistance :up to 20x10⁶ cJ/kg (up to 20 Mrad)

Properties

- Advantages
Hardly changes of dielectric strength and the insulation resistance also at high temperatures, high ignition or flash point, in case of fire, forms an insulating layer of SiO₂
- Resistant to
High molecular oils, fats from vegetables and animals, alcohols, plasticizers and clophenes, diluted acids, lye and salt dissolution, oxidation substances, tropical influences and weather, lake water, oxygen
- Halogen-free
According to DIN VDE 0482 part 267/ EN 50267-2-2/ IEC 60754-2 (equivalent DIN VDE 0472 part 813)
- Behavior in fire
No flame propagation
Test according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- For laying as a fixed installation only in open or ventilated pipe systems as well as in ducts.
Otherwise the mechanical properties of the silicon are reduced by the enclosed air at temperatures exceeding 90°C

Product specification:

AWG	No. of Cores	Conductor cross section mm ²	Nominal OD mm	Copper weight kg/km	Gross Weight kg/km
18	2	0.75	7.2	14.4	88
18	3	0.75	7.6	21.6	99
18	4	0.75	8.1	29	121
18	5	0.75	9.2	36	147
18	6	0.75	9.9	43	169
18	7	0.75	9.9	50	178
17	2	1	7.6	19	98
17	3	1	8	29	119
17	4	1	8.8	38	139
17	5	1	9.7	48	167
17	6	1	10.4	58	185



AWG	No. of Cores	Conductor cross section mm ²	Nominal OD mm	Copper weight kg/km	Gross Weight kg/km
17	7	1	10.4	67	194
16	2	1.5	8.3	29	126
16	3	1.5	8.7	43	143
16	4	1.5	9.6	58	170
16	5	1.5	10.4	72	198
16	6	1.5	11.4	86	245
16	7	1.5	11.4	101	256
16	8	1.5	12.7	116	315
16	10	1.5	14	144	370
16	12	1.5	14.5	173	408
16	14	1.5	15.6	202	471
16	16	1.5	17	231	541
16	18	1.5	17.8	260	599
16	20	1.5	18.3	288	630
16	24	1.5	20.4	346	760
14	2	2.5	9.7	48	165
14	3	2.5	10.2	72	238
14	4	2.5	11.5	96	268
14	5	2.5	12.7	120	315
14	6	2.5	13.7	144	370
14	7	2.5	13.7	168	385
14	12	2.5	17.6	288	608
12	2	4	11.5	77	255
12	3	4	12.2	115	299
12	4	4	13.4	154	365
12	5	4	15.1	192	455
12	6	4	16.4	230	525
12	7	4	16.4	269	556
10	2	6	12.9	115	326
10	3	6	13.7	173	401
10	4	6	14.8	230	485
10	5	6	16.8	288	602
10	6	6	18.2	346	701
10	7	6	18.2	403	736
8	2	10	17.3	192	543
8	3	10	18.4	288	652
8	4	10	20.6	384	825
8	5	10	22.5	480	987
6	2	16	20.2	308	748
6	3	16	21.5	462	909



AWG	No. of Cores	Conductor cross section mm ²	Nominal OD mm	Copper weight kg/km	Gross Weight kg/km
6	4	16	23.4	616	1183
6	5	16	26.2	770	1393
4	2	25	23.8	480	1046
4	3	25	26	720	1347
4	4	25	28.3	960	1678
2	2	35	27.2	672	1378
2	3	35	29	1008	1846
2	4	35	32.3	1344	2240
1	2	50	31.4	960	1869
1	3	50	33.5	1440	2384
1	4	50	37.2	1920	2702
2/0	2	70	35.3	1344	2482
2/0	3	70	38.3	2016	3314
2/0	4	70	42.5	2688	4074
3/0	2	90	41.4	1824	3380
3/0	3	90	44.8	2736	4299
3/0	4	90	49.8	3648	5339
4/0	3	120	48.8	3465	5277
4/0	4	120	54.1	4620	6571

Other sizes and colours available on request.

