SiHF-C-Si

Silicone halogen-free cable, flexible

Cable structure

- Tinned copper conductor, according to DIN VDE 0295 cl. 5 or IEC 60228 cl.5
- Silicone core insulation
- Color coded according to DIN VDE 0293, colored or black cores with white numbering
- For two core-cables, colors brown and blue
- Cores stranded in layers with optimal lay-lenght
- Green-yellow earth core in the outer layer, from 3 cores and more
- Inner sheath of silicone
- Tinned copper braided screening, approx. 85 % coverage
- Outer sheath of silicone
- Outer sheath color red-brown

Technical data

- Special silicone cable, extensively heat resistant
- **Temperature range** from -60 °C to +180 °C, short time +200 °C
- **Nominal voltage** U_O/U 300/500 V
- **Test voltage a.c.** 2000 V
- **Spark test** min. 5000 V
- **Insulation resistance** min. 200 MΩ × km
- **Minimum bending radius** approx. 7,5× cable diameter
- **Radiation resistance** up to 20 × 10^6 cJ/kg (up to 20 Mrad)
- **Halogen-free** to DIN VDE 0482 part 267/EN 50267-2-1/ IEC 60754-1
- **Self-extinguishing and flame** resistant sheath according to DIN VDE 0482 part 265-2-1/EN 50265-2-1/IEC 60332-1

Application

These silicone cables are used in all areas with permanently high temperatures up to 180 °C, short time up to 200 °C, as well as for areas with low temperatures up to -60 °C. Silicone cables are halogen-free and are used in power plants, in iron mills, steel-works, rolling-mills, in aviation and ship industry in cement, glass and ceramic factories etc. The screened steel braiding ensures a disturbance-free transmission of signals and impulses in mentioned environments.

Resistant to

high molecular oils, fats from vegetables and animals, alcohols, plasticizers and clophenes, diluted acids, lyes and salt dissolutions, oxidation substances, tropical and weather influeneces and oxygen.

Note

Fixed installation only in open or ventilated pipe systems or ducts. Otherwise the mechanical properties of the silicone are reduced in the enclosed areas with air temperatures exceeding 90 °C.
CE = the product is conformed with the EC Low-Voltage Directive 73/23/EEC. Conforms to RoHS.

Ordering code	Number of cores × core cross section [mm²]	Approx. outer ∅ [mm]	Cooper weight [kg/km]	Approx. cable weight [kg/km]
0423151	2×0,5	8,7	55,5	101
0423152	3×0,5	8,9	60,8	118
0423153	4×0,5	9,4	66,5	131
0423154	5×0,5	10,0	81,6	153
0423155	7×0,5	10,5	92,2	173
0423156	10×0,5	13,1	124,0	242
0423157	12×0,5	13,4	134,4	263
0423158	16×0,5	14,6	170,2	326
0423159	18×0,5	15,1	181,0	351
0423160	2×0,75	9,2	61,4	124
0423161	3×0,75	9,5	69,1	136
0423162	4×0,75	10,1	86,7	159
0423163	5×0,75	10,8	95,2	180
0423164	7×0,75	11,6	113,3	212
0423165	10×0,75	14,4	165,2	306
0423166	12×0,75	14,7	180,3	333
0423167	16×0,75	16,5	212,2	418
0423168	18×0,75	17,3	282,1	453
0423169	2×1	9,5	66,7	132
0423170	3×1	9,7	86,2	153
0423171	4×1	10,4	96,8	173
0423172	5×1	11,3	108,3	202
0423173	7×1	12,0	141,2	243
0423174	10×1	14,9	190,0	238
0423175	12×1	15,2	209,8	371
0423176	16×1	17,0	251,8	468
0423177	18×1	17,8	297,4	526

Ordering code	Number of cores × core cross section [mm²]	Approx. outer ∅ [mm]	Cooper weight [kg/km]	Approx. cable weight [kg/km]
0423178	2×1,5	10,7	87,7	172
0423179	3×1,5	11,2	103,5	198
0423180	4×1,5	11,8	131,7	235
0423181	5×1,5	13,3	148,5	281
0423182	7×1,5	14,3	193,4	345
0423183	10×1,5	17,7	268,5	482
0423184	12×1,5	18,0	298,4	531
0423185	16×1,5	20,1	362,3	662
0423186	18×1,5	20,9	394,0	720
0423187	2×2,5	12,1	122,3	230
0423188	3×2,5	12,9	147,7	275
0423189	4×2,5	14,2	188,6	340
0423190	5×2,5	15,3	214,9	394
0423191	7×2,5	16,9	265,7	488
0423192	4×4	17,1	294,0	520
0423193	5×4	19,4	374,0	653
0423194	4×6	18,8	449,0	781
0423195	5×6	21,2	563,0	982
0423196	4×10	25,7	759,0	1294
0423197	4×16	28,4	1180,0	1988
0423198	4×25	35,0	1810,0	2995
0423199	4×35	39,2	2430,0	4173