



Technical data

- Special silicone multicore cable with higher heat-resistance range adapted to DIN VDE 0250-1 / DIN VDE 0285-525-2-83 / DIN EN 50525-2-83
- **Temperature range**
flexing -25°C to +180°C
fixed installation -60°C to +180°C
- Permissible **operating temperature** at the conductor +180°C
- **Nominal voltage**
U₀/U 300/500 V
- **Test voltage**
2000 V
- **Breakdown voltage**
4000 V
- **Minimum bending radius**
flexing 7,5x outer Ø
fixed installation 4x outer Ø

Cable structure

- Tinned copper conductor, fine wire acc. to DIN VDE 0295 cl.5 / IEC 60228 cl.5
- Core insulation of silicone (compound type EI2) acc. to DIN VDE 0207-363-1 / DIN EN 50363-1
- Core identification acc. to DIN VDE 0293-308
≤ 5 cores: coloured
≥ 6 cores: black with continuous white numbering
- GN-YE conductor, 3 cores and above
- Cores stranded in layers with optimal lay length
- Outer sheath of silicone (compound type EM9) acc. to DIN VDE 0207-363-2-1 / DIN EN 50363-2-1
- Sheath colour: preferably redbrown
- With meter marking

Tests

- Halogen-free acc. to DIN VDE 0482-267 / DIN EN 50267-2-2 / IEC 60754-2
- Flame retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

Properties

- **Advantages**
hardly changes of dielectric strength and the insulation resistance also at high temperatures, high ignition or flash point, leave in case of fire an insulating layer of SiO₂
- **Resistant to**
high molecular oils, fats from vegetables and animals, alcohols, plasticizers and clophenes, diluted acids, lyes and salt dissolution, oxidation substances, atmospheric influences, lake water, oxygen, ozone
- For laying as a fixed installation only in open or ventilated pipe systems as well as in ducts. Otherwise the mechanical properties of the silicone are reduced by the enclosed air at temperatures exceeding 90°C.

Note

- G = with GN-YE conductor
x = without GN-YE conductor
- The conductor is metrically constructed (mm²). The AWG designation is approximate and purely informative.
- Screened analogue type:
SIHF-C-Si

Application

Silicone cables were evolved for use wherever insulation is subjected to extreme temperature changes. The good performance of the environmental resistant properties means that silicone cables can be used at temperatures down to -60°C. Silicone cables are halogen-free cables and are especially suited for installation in power stations. They have also found their uses in the steel producing industries, aviation industry, ship building as well as in ceramic, glass and cement factories. Due to elastical characteristic of core insulations, these are used as flexible connection cable.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
22989	2 x 0,5	5,6	9,6	42,0	20
22990	3 G 0,5	5,9	14,5	44,0	20
22940	3 x 0,5	5,9	14,5	44,0	20
22991	4 G 0,5	6,5	19,3	58,0	20
22941	4 x 0,5	6,5	19,3	58,0	20
22992	5 G 0,5	7,3	24,0	62,0	20
22942	5 x 0,5	7,3	24,0	62,0	20
22993	6 G 0,5	8,3	28,9	79,0	20
22994	7 G 0,5	8,3	33,7	85,0	20
22995	8 G 0,5	9,0	38,4	99,0	20
22996	10 G 0,5	10,1	48,1	124,0	20
22997	12 G 0,5	10,7	57,6	141,0	20
22998	16 G 0,5	12,1	76,7	186,0	20
22999	18 G 0,5	12,7	86,5	211,0	20
23000	25 G 0,5	15,3	120,0	271,0	20

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
23001	2 x 0,75	6,4	14,4	53,0	19
23002	3 G 0,75	6,8	21,6	63,0	19
23104	3 x 0,75	6,8	21,6	63,0	19
23003	4 G 0,75	7,6	29,0	83,0	19
23105	4 x 0,75	7,6	29,0	83,0	19
23004	5 G 0,75	8,5	36,0	101,0	19
22943	5 x 0,75	8,5	36,0	101,0	19
23005	6 G 0,75	9,2	43,0	115,0	19
23006	7 G 0,75	9,2	50,0	124,0	19
23127	8 G 0,75	9,9	57,7	138,0	19
23128	10 G 0,75	11,1	72,1	156,0	19
23129	12 G 0,75	12,2	86,5	185,0	19
23130	16 G 0,75	13,7	115,2	218,0	19
23131	18 G 0,75	14,6	129,7	260,0	19
23132	25 G 0,75	17,8	180,0	370,0	19

Continuation ►

Part no.	No. cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
23007	2 x 1	6,6	19,0	59,0	18
23008	3 G 1	7,0	29,0	77,0	18
22944	3 x 1	7,0	29,0	77,0	18
23009	4 G 1	7,9	38,0	94,0	18
22945	4 x 1	7,9	38,0	94,0	18
23010	5 G 1	8,8	48,0	115,0	18
22946	5 x 1	8,8	48,0	115,0	18
23011	6 G 1	9,5	58,0	134,0	18
23012	7 G 1	9,5	67,0	144,0	18
23133	8 G 1	10,3	76,7	175,0	18
24000	9 G 1	11,5	86,0	196,0	18
23134	10 G 1	11,5	96,1	216,0	18
23135	12 G 1	12,6	115,2	231,0	18
23136	16 G 1	14,2	153,5	302,0	18
23137	18 G 1	15,1	172,9	340,0	18
23138	25 G 1	18,4	240,0	431,0	18
23013	2 x 1,5	7,6	29,0	81,0	16
23014	3 G 1,5	8,0	43,0	98,0	16
22947	3 x 1,5	8,0	43,0	98,0	16
23015	4 G 1,5	8,8	58,0	122,0	16
22948	4 x 1,5	8,8	58,0	122,0	16
23016	5 G 1,5	9,6	72,0	147,0	16
22949	5 x 1,5	9,6	72,0	147,0	16
23017	6 G 1,5	10,4	86,0	173,0	16
23018	7 G 1,5	10,4	101,0	187,0	16
23019	8 G 1,5	11,3	114,0	213,0	16
23020	10 G 1,5	13,0	116,0	263,0	16
23021	12 G 1,5	14,0	173,0	314,0	16
23022	14 G 1,5	14,7	202,0	379,0	16
23023	16 G 1,5	16,2	231,0	445,0	16
23024	18 G 1,5	17,0	260,0	506,0	16
23025	20 G 1,5	17,5	288,0	566,0	16
23026	24 G 1,5	19,8	346,0	722,0	16

Part no.	No. cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
23027	2 x 2,5	8,8	48,0	134,0	14
23028	3 G 2,5	9,7	72,0	152,0	14
23029	4 G 2,5	10,6	96,0	188,0	14
23030	5 G 2,5	11,6	120,0	228,0	14
23139	6 G 2,5	12,6	144,0	304,0	14
23032	7 G 2,5	12,6	168,0	320,0	14
23140	8 G 2,5	13,7	192,2	373,0	14
23141	10 G 2,5	15,5	240,1	450,0	14
23033	12 G 2,5	17,1	288,0	502,0	14
23142	16 G 2,5	19,6	384,0	659,0	14
23143	18 G 2,5	20,6	432,2	761,0	14
23144	25 G 2,5	24,9	600,0	1007,0	14
23034	2 x 4	10,8	77,0	180,0	12
23035	3 G 4	11,5	115,0	224,0	12
23036	4 G 4	12,6	154,0	295,0	12
23037	5 G 4	14,0	192,0	359,0	12
23039	7 G 4	15,6	269,0	479,0	12
23040	2 x 6	12,4	115,0	210,0	10
23041	3 G 6	13,2	173,0	270,0	10
23042	4 G 6	14,7	230,0	341,0	10
23043	5 G 6	16,6	288,0	432,0	10
23045	7 G 6	18,6	403,0	552,0	10
23046	2 x 10	16,2	192,0	400,0	8
23047	3 G 10	17,3	288,0	507,0	8
23048	4 G 10	19,4	384,0	644,0	8
23049	5 G 10	21,6	480,0	788,0	8
23145	7 G 10	23,4	672,2	1151,0	8
23050	2 x 16	18,0	308,0	591,0	6
23051	3 G 16	19,4	462,0	749,0	6
23052	4 G 16	21,4	616,0	950,0	6
23053	5 G 16	24,0	770,0	1204,0	6
23146	7 G 16	26,4	1075,3	1682,0	6
23054	2 x 25	22,0	480,0	700,0	4
23055	3 G 25	23,5	720,0	1100,0	4
23056	4 G 25	26,4	960,0	1500,0	4
23057	2 x 35	24,6	672,0	1100,0	2
23058	3 G 35	26,4	1008,0	1500,0	2
23059	4 G 35	29,2	1344,0	2100,0	2

Dimensions and specifications may be changed without prior notice. (RE01)