

SILICONE CABLES

also possible
with extremely notch
resistant sheath



BiHF-J Silicone insulated strands with Silicone outer jacket



BiHF-J is a multi-conductor, silicone insulated control cable with a reddish brown silicone jacket. Silicone cables are recommended for use where high temperatures rapidly cause other cables to deteriorate. Recommended applications include foundries, steel mills and glass factories and other high temperature processes.

Construction:

Conductor:	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	Besilen® EI2 acc. to DIN VDE 0282 part 1 and HD 22.1
Color code:	up to 5 conductors colored acc. to HD 308 (VDE 0293 part 308); from 6 conductors black conductors with consecutive numbers acc. to EN 50334; from 3 conductors a green-yellow earth wire
Stranding:	in layers
Jacket material:	Besilen® EM9 acc. to DIN 0282 part 1 + HD 22.1
Jacket color:	reddish brown

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage:	2000 V
Min. bending radius <i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.
Radiation resistance:	2 x 10 ⁷ cJ/kg
Temperature range <i>static:</i>	-40/+180 °C
<i>flexing:</i>	-25/+180 °C
<i>short-time use:</i>	+250 °C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Corrosivity:	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Chem. resistance:	see page N/9
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS-guideline 2002/95/EG as well as GefStoffV appendix IV-no. 24, see page N/25

Outstanding features:

- halogen-free
- flexible at low temperatures
- heat resistant

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 20 AWG (17/32) • 0.50 mm²				
01410205	2	0.189	4.8	21
01410305	3	0.201	5.1	25
01410405	4	0.217	5.5	30
01410505	5	0.240	6.1	36
01410705	7	0.260	6.6	46
01411205	12	0.350	8.9	76
01411805	18	0.417	10.6	110
01412505	25	0.508	12.9	151
▶ 19 AWG (23/32) • 0.75 mm²				
01410207	2	0.213	5.4	28
01410307	3	0.224	5.7	33
01410407	4	0.244	6.2	40
01410507	5	0.272	6.9	48
01410607	6	0.303	7.7	58
01410707	7	0.303	7.7	65
01411007	10	0.394	10.0	91
01411207	12	0.406	10.3	106
01411807	18	0.520	13.2	153
01412507	25	0.587	14.9	211

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 18 AWG (30/32) • 1.00 mm²				
01410210	2	0.220	5.6	31
01410310	3	0.232	5.9	38
01410410	4	0.256	6.5	47
01410510	5	0.280	7.1	56
01410610	6	0.315	8.0	68
01410710	7	0.315	8.0	76
01410810	8	0.366	9.3	87
01411210	12	0.421	10.7	124
01411810	18	0.504	12.8	131
01412510	25	0.610	15.5	248
▶ 16 AWG (27-29/30) • 1.50 mm²				
01410215	2	0.260	6.6	42
01410315	3	0.276	7.0	54
01410415	4	0.307	7.8	69
01410515	5	0.339	8.6	81
01410615	6	0.370	8.4	95
01410715	7	0.370	9.4	106
01410815	8	0.441	11.2	126
01411215	12	0.504	12.8	178
01411815	18	0.606	15.4	263
01412015	20	0.638	16.2	288
01412515	25	0.732	18.6	362

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
▶ 14 AWG (46/30) • 2.50 mm²				
01410225	2	0.315	8.0	67
01410325	3	0.335	8.5	83
01410425	4	0.366	9.3	103
01410525	5	0.417	10.6	129
01410625	6	0.457	11.6	151
01410725	7	0.457	11.6	169
01410925	9	0.598	15.2	224
01411225	12	0.618	15.7	280
01412425	24	0.882	22.4	546

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item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 12 AWG (52/28) • 4.00 mm²				
01410240	2	0.378	9.6	99
01410340	3	0.402	10.2	125
01410440	4	0.437	11.1	155
01410540	5	0.492	12.5	190
01410740	7	0.535	13.6	249
▶ 10 AWG (78/28) • 6.00 mm²				
01410260	2	0.425	10.8	135
01410360	3	0.449	11.4	171
01410460	4	0.492	12.5	213
01410560	5	0.543	13.8	257

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 8 AWG (77/26) • 10.00 mm²				
01410461	4	0.661	16.8	374
01410561	5	0.736	18.7	456
▶ 6 AWG (129/26) • 16.00 mm²				
01410462	4	0.799	20.3	551

item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 4 AWG (200/26) • 25.00 mm²				
01410463	4	1.000	25.4	894
▶ 2 AWG (280/26) • 35.00 mm²				
01410464	4	1.134	28.8	1210
Other dimensions and colors are possible on request.				