

SILICONE CABLES

BIHFP-J Silicone insulated strands with Silicone outer jacket and steel wire armoring for mechanical protection



BIHFP-J is a multi-conductor, silicone insulated control cable with silicone jacket and protective steel braid. Recommended for use where high temperatures, mechanical abuse and abrasion rapidly cause other cables to deteriorate. It is a flexible, high temperature cable where additional mechanical protection is required. 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
Armour:	galvanized steel wire braiding

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage:	2000 V
Min. bending radius	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 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 directive of the European Union see page N/28

Outstanding features:

- halogen-free
- flexible at low temperatures
- heat resistant
- protection against mechanical damage

item no.	no. of conductors incl. ground	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-Ø inch	nominal outer-Ø mm	cable weight ≈ lbs/mft
▶ 19 AWG (≈ 23/32) • 0.75 mm ²					▶ 16 AWG (≈ 27-29/30) • 1.50 mm ²					▶ 12 AWG (≈ 52/28) • 4.00 mm ²				
01430207	2	0.252	6.4	46	01430215	2	0.295	7.5	64	01430240	2	0.417	10.6	132
01430307	3	0.264	6.7	53	01430315	3	0.311	7.9	75	01430340	3	0.441	11.2	159
01430407	4	0.283	7.2	60	01430415	4	0.343	8.7	93	01430440	4	0.476	12.1	194
01430507	5	0.311	7.9	73	01430515	5	0.378	9.6	113	01430540	5	0.539	13.7	251
01430607	6	0.343	8.7	89	01430615	6	0.409	10.4	133	01430640	6	0.583	14.8	291
01430707	7	0.343	8.7	91	01430715	7	0.409	10.4	139	01430740	7	0.583	14.8	308
▶ 18 AWG (≈ 30/32) • 1.00 mm ²					▶ 14 AWG (≈ 46/30) • 2.50 mm ²					▶ 10 AWG (≈ 78/28) • 6.00 mm ²				
01430210	2	0.260	6.6	51	01430225	2	0.354	9.0	94	01430260	2	0.465	11.8	172
01430310	3	0.272	6.9	58	01430325	3	0.374	9.5	112	01430360	3	0.496	12.6	224
01430410	4	0.295	7.5	69	01430425	4	0.406	10.3	132	01430460	4	0.539	13.7	269
01430510	5	0.319	8.1	81	01430525	5	0.457	11.6	170	01430560	5	0.606	15.4	333
01430610	6	0.354	9.0	99	01430625	6	0.504	12.8	211	Other dimensions and colors are possible on request.				
01430710	7	0.354	9.0	103	01430725	7	0.504	12.8	222					