



## BiHF(K)-J Silicone insulated strands with extremely notch resistant Silicone outer jacket



BiHF(K)-J is a multi-conductor, silicone insulated control cable with a black extremely notch resistant silicone jacket. Silicone cables are recommended for use where high temperatures and UV light rapidly cause other cables to deteriorate. Recommended applications include foundries, steel mills and glass factories and other high temperature processes.

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
<b>Insulation:</b>	Besilen® EI2 acc. to DIN VDE 0282 part 1 and HD 22.1
<b>Color code:</b>	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
<b>Stranding:</b>	in layers
<b>Jacket material:</b>	Besilen® notch resistant
<b>Jacket color:</b>	black

### Outstanding features:

- improved tear resistance
- extremely notch resistant
- good sunlight resistance
- halogen-free
- flexible at low temperatures
- heat resistant

### Technical data:

<b>Nominal voltage:</b>	Uo/U 300/500 V
<b>Testing voltage:</b>	2000 V
<b>Min. bending radius</b>	
<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.
<b>Radiation resistance:</b>	2 x 10 <sup>7</sup> cJ/kg
<b>Temperature range</b>	
<i>static:</i>	-40/+180 °C
<i>flexing:</i>	-25/+180 °C
<i>short-time use:</i>	+250 °C
<b>Zero halogen:</b>	acc. to DIN VDE 0472 part 815 and IEC 60754-1
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
<b>Corrosivity:</b>	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
<b>Chem. resistance:</b>	see page N/9
<b>Weather resistance:</b>	very good
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/28

item no.	no. of conductors incl. ground	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-Ø inch	mm	cable weight ≈ lbs/mft
<b>▶ 19 AWG (≈ 23/32) • 0.75 mm<sup>2</sup></b>					<b>▶ 16 AWG (≈ 27-29/30) • 1.50 mm<sup>2</sup></b>					<b>▶ 12 AWG (≈ 52/28) • 4.00 mm<sup>2</sup></b>				
01450207	2	0.213	5.4	27	01450215	2	0.260	6.6	43	01450340	3	0.402	10.2	124
01450307	3	0.224	5.7	33	01450315	3	0.276	7.0	53	01450440	4	0.437	11.1	153
01450407	4	0.244	6.2	40	01450415	4	0.307	7.8	68	01450540	5	0.492	12.5	188
01450507	5	0.272	6.9	48	01450515	5	0.339	8.6	81	01450740	7	0.535	13.6	248
01450707	7	0.303	7.7	65	01450715	7	0.370	9.4	106	<b>▶ 10 AWG (≈ 78/28) • 6.00 mm<sup>2</sup></b>				
01451207	12	0.406	10.3	106	01451215	12	0.504	12.8	178	01450360	3	0.449	11.4	169
<b>▶ 18 AWG (≈ 30/32) • 1.00 mm<sup>2</sup></b>					01451815	18	0.606	15.4	263	01450460	4	0.492	12.5	212
01450210	2	0.220	5.6	30	01452415	24	0.717	18.2	350	01450560	5	0.543	13.8	256
01450310	3	0.232	5.9	38	01452515	25	0.732	18.6	363	Other dimensions and colors are possible on request.				
01450410	4	0.256	6.5	46	<b>▶ 14 AWG (≈ 46/30) • 2.50 mm<sup>2</sup></b>									
01450510	5	0.280	7.1	56	01450225	2	0.315	8.0	65					
01450710	7	0.315	8.0	75	01450325	3	0.335	8.5	82					
01451210	12	0.421	10.7	124	01450425	4	0.366	9.3	101					
					01450525	5	0.417	10.6	128					
					01450625	6	0.457	11.6	150					
					01450725	7	0.457	11.6	168					