



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:

Conductor:	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	Besilen® E12 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® notch resistant
Jacket color:	black

Outstanding features:

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

Technical data:

Nominal voltage:	U ₀ /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

item no.	no. of conductors incl. ground	nominal outer- ϕ inch	nominal outer- ϕ mm	cable weight \approx lbs/mft
▶ 19 AWG (23/32) • 0.75 mm²				
01450207	2	0.213	5.4	27
01450307	3	0.224	5.7	33
01450407	4	0.244	6.2	40
01450507	5	0.272	6.9	48
01450707	7	0.303	7.7	65
01451207	12	0.406	10.3	106
▶ 18 AWG (30/32) • 1.00 mm²				
01450210	2	0.220	5.6	30
01450310	3	0.232	5.9	38
01450410	4	0.256	6.5	46
01450510	5	0.280	7.1	56
01450710	7	0.315	8.0	75
01451210	12	0.421	10.7	124

item no.	no. of conductors incl. ground	nominal outer- ϕ inch	nominal outer- ϕ mm	cable weight \approx lbs/mft
▶ 16 AWG (27-29/30) • 1.50 mm²				
01450215	2	0.260	6.6	43
01450315	3	0.276	7.0	53
01450415	4	0.307	7.8	68
01450515	5	0.339	8.6	81
01450715	7	0.370	9.4	106
01451215	12	0.504	12.8	178
01451815	18	0.606	15.4	263
01452415	24	0.717	18.2	350
01452515	25	0.732	18.6	363
▶ 14 AWG (46/30) • 2.50 mm²				
01450225	2	0.315	8.0	65
01450325	3	0.335	8.5	82
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

item no.	no. of conductors incl. ground	nominal outer- ϕ inch	nominal outer- ϕ mm	cable weight \approx lbs/mft
▶ 12 AWG (52/28) • 4.00 mm²				
01450340	3	0.402	10.2	124
01450440	4	0.437	11.1	153
01450540	5	0.492	12.5	188
01450740	7	0.535	13.6	248
▶ 10 AWG (78/28) • 6.00 mm²				
01450360	3	0.449	11.4	169
01450460	4	0.492	12.5	212
01450560	5	0.543	13.8	256

Other dimensions and colors are possible on request.