

High Temperature Cables

BiHF(K)-J

Silicone insulated conductors with extremely notch resistant silicone outer jacket

EWKF



Construction:

Conductor:	tinned copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	Besilen® EI2 acc. to EN 50363-1 + VDE 0207-363-1
Color code:	colored acc. to HD 308 (VDE 0293-308), from 6 conductors- black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334 from 3 conductors- a green/yellow ground
Stranding:	in layers
Jacket material:	Besilen® notch resistant
Jacket color:	black (similar RAL 9011)

Outstanding features:

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

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage:	conductor/conductor: 2000 V
Min. bending radius:	
<i>fixed installation:</i>	4 x O.D.
<i>free movement:</i>	6 x O.D.
Radiation resistance:	2 x 10 ⁷ cJ/kg
Temperature range:	
<i>static:</i>	-40/+180°C
<i>flexible:</i>	-25/+180°C
<i>short-term use:</i>	+250°C
Halogen-free	acc. to IEC 60754-1 + VDE 0482-754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Corrosivity:	IEC 60754-2 + VDE 0482-754-2 - no development of corrosive conflagration gases
Chemical resistance:	see page O/11
Weather resistance:	very good
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

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item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
1450207	2	0.213	5.4	27
1450307	3	0.224	5.7	33
1450407	4	0.244	6.2	40
1450507	5	0.272	6.9	48
1450707	7	0.303	7.7	65
1451207	12	0.406	10.3	105
▶ 18 AWG (≈ 30/32) ▪ 1.00 mm²				
1450210	2	0.220	5.6	30
1450310	3	0.232	5.9	38
1450410	4	0.256	6.5	46
1450510	5	0.280	7.1	56
1450710	7	0.315	8.0	75
1451210	12	0.421	10.7	124

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm²				
1450215	2	0.260	6.6	43
1450315	3	0.276	7.0	53
1450415	4	0.307	7.8	68
1450515	5	0.339	8.6	81
1450715	7	0.370	9.4	106
1451215	12	0.504	12.8	178
1451815	18	0.606	15.4	263
1452415	24	0.717	18.2	350
1452515	25	0.732	18.6	363
▶ 14 AWG (≈ 46/30) ▪ 2.50 mm²				
1450225	2	0.315	8.0	65
1450325	3	0.335	8.5	82
1450425	4	0.366	9.3	101
1450525	5	0.417	10.6	128
1450625	6	0.457	11.6	150
1450725	7	0.457	11.6	168

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 12 AWG (≈ 52/28) ▪ 4.00 mm²				
1450340	3	0.402	10.2	124
1450440	4	0.437	11.1	153
1450540	5	0.492	12.5	188
1450740	7	0.535	13.6	248
▶ 10 AWG (≈ 78/28) ▪ 6.00 mm²				
1450360	3	0.449	11.4	169
1450460	4	0.492	12.5	212
1450560	5	0.543	13.8	256

Other dimensions and colors are available on request