

also possible  
without  
inner sheath!

# SILICONE CABLES

**EWKF**

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



BiHF/Cu/Bi(K)-J is a multi-conductor, shielded, 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. An overall tinned copper shield is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

### 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>Inner jacket:</b>	Besilen® EM9 acc. to DIN 0282 part 1 + HD 22.1
<b>Screen:</b>	tinned copper braiding
<b>Jacket material:</b>	Besilen® notch resistant
<b>Jacket color:</b>	black

### Outstanding features:

- improved tear resistance
- extremely notch resistant
- good sunlight resistance
- good EMC characteristics
- halogen-free
- flexible at low temperatures
- heat resistant
- increased mechanical protection

### Technical data:

<b>Nominal voltage:</b>	U <sub>0</sub> /U 300/500 V
<b>Testing voltage:</b>	2000 V conductor/screen 1000 V
<b>Min. bending radius</b>	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 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>				
01950207	2	0.323	8.2	67	01950215	2	0.370	9.4	93	01950340	3	0.535	13.6	203
01950307	3	0.335	8.5	73	01950315	3	0.394	10.0	112	01950440	4	0.571	14.5	253
01950407	4	0.354	9.0	83	01950415	4	0.425	10.8	130	01950540	5	0.626	15.9	305
01950507	5	0.382	9.7	94	01950515	5	0.457	11.6	149	01950740	7	0.685	17.4	385
01950707	7	0.421	10.7	124	01950715	7	0.504	12.8	184	▶ <b>10 AWG (≈ 78/28) • 6.00 mm<sup>2</sup></b>				
01951207	12	0.539	13.7	192	01951215	12	0.661	16.8	304	01950360	3	0.618	15.7	300
▶ <b>18 AWG (≈ 30/32) • 1.00 mm<sup>2</sup></b>					01951815	18	0.764	19.4	410	01950460	4	0.669	17.0	364
01950210	2	0.331	8.4	73	01952415	24	0.882	22.4	528	01950560	5	0.732	18.6	432
01950310	3	0.343	8.7	81	01952515	25	0.898	22.8	550	Other dimensions and colors are possible on request.				
01950410	4	0.366	9.3	92	▶ <b>14 AWG (≈ 46/30) • 2.50 mm<sup>2</sup></b>									
01950510	5	0.398	10.1	107	01950225	2	0.433	11.0	135					
01950710	7	0.433	11.0	136	01950325	3	0.453	11.5	153					
01951210	12	0.555	14.1	211	01950425	4	0.500	12.7	185					
					01950525	5	0.543	13.8	215					
					01950625	6	0.591	15.0	249					
					01950725	7	0.591	15.0	267					