

High Temperature Cables

BiHF/Cu/Bi(K)-J

Shielded 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:	up to 5 conductors- HD 308, see below 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
Inner jacket:	Besilen® EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
Shielding:	tinned copper braiding
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
- good EMC characteristics
- halogen-free
- flexible at low temperatures
- heat resistant
- increased mechanical protection

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage:	conductor/conductor: 2000 V conductor/shielding: 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>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

item no.	no. of conductors incl. ground	outer-ø ± 5% inch	outer-ø ± 5% mm	cable weight ≈lbs/mft
▶ 19 AWG (≈ 23/32) • 0.75 mm²				
1950207	2	0.323	8.2	67
1950307	3	0.335	8.5	73
1950407	4	0.354	9.0	83
1950507	5	0.382	9.7	94
1950707	7	0.421	10.7	124
1951207	12	0.539	13.7	191
▶ 18 AWG (≈ 30/32) • 1.00 mm²				
1950210	2	0.331	8.4	73
1950310	3	0.343	8.7	81
1950410	4	0.366	9.3	92
1950510	5	0.398	10.1	107
1950710	7	0.433	11.0	136
1951210	12	0.555	14.1	211

item no.	no. of conductors incl. ground	outer-ø ± 5% inch	outer-ø ± 5% mm	cable weight ≈lbs/mft
▶ 16 AWG (≈ 27-29/30) • 1.50 mm²				
1950215	2	0.370	9.4	93
1950315	3	0.394	10.0	112
1950415	4	0.425	10.8	130
1950515	5	0.457	11.6	148
1950715	7	0.504	12.8	184
1951215	12	0.661	16.8	304
1951815	18	0.764	19.4	410
1952415	24	0.882	22.4	528
1952515	25	0.898	22.8	550
▶ 14 AWG (≈ 46/30) • 2.50 mm²				
1950225	2	0.433	11.0	135
1950325	3	0.453	11.5	153
1950425	4	0.500	12.7	185
1950525	5	0.543	13.8	215
1950625	6	0.591	15.0	249
1950725	7	0.591	15.0	267

item no.	no. of conductors incl. ground	outer-ø ± 5% inch	outer-ø ± 5% mm	cable weight ≈lbs/mft
▶ 12 AWG (≈ 52/28) • 4.00 mm²				
1950340	3	0.535	13.6	203
1950440	4	0.571	14.5	253
1950540	5	0.626	15.9	305
1950740	7	0.685	17.4	385
▶ 10 AWG (≈ 78/28) • 6.00 mm²				
1950360	3	0.618	15.7	300
1950460	4	0.669	17.0	364
1950560	5	0.732	18.6	432

Other dimensions and colors are available on request

HD 308 color code: up to 5 conductors

2c: blue, brown

3c: green/yellow, blue, brown

4c: green/yellow, brown, black, gray

5c: green/yellow, blue, brown, black, gray



Possible on request
without inner jacket