

High Temperature Cables

BiHF-J

Silicone insulated conductors with silicone outer jacket

also possible with extremely notch resistant jacket



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
Jacket material:	Besilen® EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
Jacket color:	reddish brown (similar RAL 3016)

Outstanding features:

- 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

item no.	no. of conductors incl. ground	outer-ø		cable weight
		± 5% inch	± 5% mm	≈lbs/mft
▶ 20 AWG (≈ 16/32) ▪ 0.50 mm²				
1410205	2	0.189	4.8	21
1410305	3	0.201	5.1	25
1410405	4	0.217	5.5	30
1410505	5	0.240	6.1	36
1410705	7	0.260	6.6	46
1411205	12	0.350	8.9	76
1411805	18	0.417	10.6	110
1412505	25	0.508	12.9	151
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
1410207	2	0.213	5.4	28
1410307	3	0.224	5.7	33
1410407	4	0.244	6.2	40
1410507	5	0.272	6.9	48
1410607	6	0.303	7.7	58
1410707	7	0.303	7.7	65
1411007	10	0.394	10.0	91
1411207	12	0.406	10.3	105
1411807	18	0.520	13.2	153
1412507	25	0.587	14.9	211
▶ 18 AWG (≈ 30/32) ▪ 1.00 mm²				
1410210	2	0.220	5.6	31
1410310	3	0.232	5.9	38
1410410	4	0.256	6.5	47
1410510	5	0.280	7.1	56
1410610	6	0.315	8.0	68
1410710	7	0.315	8.0	76
1410810	8	0.366	9.3	87
1411210	12	0.421	10.7	124
1411810	18	0.504	12.8	181
1412510	25	0.610	15.5	248

item no.	no. of conductors incl. ground	outer-ø		cable weight
		± 5% inch	± 5% mm	≈lbs/mft
▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm²				
1410215	2	0.260	6.6	42
1410315	3	0.276	7.0	54
1410415	4	0.307	7.8	69
1410515	5	0.339	8.6	81
1410615	6	0.370	9.4	95
1410715	7	0.370	9.4	106
1410815	8	0.441	11.2	126
1411215	12	0.504	12.8	178
1411815	18	0.606	15.4	263
1412015	20	0.638	16.2	288
1412515	25	0.732	18.6	362
▶ 14 AWG (≈ 46/30) ▪ 2.50 mm²				
1410225	2	0.315	8.0	67
1410325	3	0.335	8.5	83
1410425	4	0.366	9.3	103
1410525	5	0.417	10.6	129
1410625	6	0.457	11.6	151
1410725	7	0.457	11.6	169
1410925	9	0.598	15.2	224
1411225	12	0.618	15.7	280
1412425	24	0.882	22.4	546
▶ 12 AWG (≈ 52/28) ▪ 4.00 mm²				
1410240	2	0.378	9.6	99
1410340	3	0.402	10.2	125
1410440	4	0.437	11.1	155
1410540	5	0.492	12.5	189
1410740	7	0.535	13.6	249

item no.	no. of conductors incl. ground	outer-ø		cable weight
		± 5% inch	± 5% mm	≈lbs/mft
▶ 10 AWG (≈ 78/28) ▪ 6.00 mm²				
1410260	2	0.425	10.8	135
1410360	3	0.449	11.4	171
1410460	4	0.492	12.5	213
1410560	5	0.543	13.8	257
▶ 8 AWG (≈ 77/26) ▪ 10.00 mm²				
1410461	4	0.661	16.8	374
1410561	5	0.736	18.7	456
▶ 6 AWG (≈ 122/26) ▪ 16.00 mm²				
1410462	4	0.799	20.3	551
▶ 4 AWG (≈ 190/26) ▪ 25.00 mm²				
1410463	4	1.000	25.4	894
▶ 2 AWG (≈ 77/26) ▪ 35.00 mm²				
1410464	4	1.134	28.8	1209

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