

High Temperature Cables

BiHFP-J

Silicone insulated conductors with silicone outer jacket and steel wire armoring for mechanical protection



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® EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
Jacket color:	reddish brown (similar RAL 3016)
Armor:	galvanized steel wire braiding

Technical data:

Nominal voltage:	Uo/U 300/500 V
Testing voltage:	conductor/conductor: 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

Outstanding features:



- halogen-free
- flexible at low temperatures
- heat resistant
- protection against mechanical damage

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
1430207	2	0.252	6.4	46
1430307	3	0.264	6.7	53
1430407	4	0.283	7.2	60
1430507	5	0.311	7.9	73
1430607	6	0.343	8.7	89
1430707	7	0.343	8.7	91
▶ 18 AWG (≈ 30/32) ▪ 1.00 mm²				
1430210	2	0.260	6.6	51
1430310	3	0.272	6.9	58
1430410	4	0.295	7.5	69
1430510	5	0.319	8.1	81
1430610	6	0.354	9.0	99
1430710	7	0.354	9.0	103

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm²				
1430215	2	0.295	7.5	64
1430315	3	0.311	7.9	75
1430415	4	0.343	8.7	93
1430515	5	0.378	9.6	113
1430615	6	0.409	10.4	133
1430715	7	0.409	10.4	139
▶ 14 AWG (≈ 46/30) ▪ 2.50 mm²				
1430225	2	0.354	9.0	94
1430325	3	0.374	9.5	112
1430425	4	0.406	10.3	132
1430525	5	0.457	11.6	170
1430625	6	0.504	12.8	211
1430725	7	0.504	12.8	222

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 12 AWG (≈ 52/28) ▪ 4.00 mm²				
1430240	2	0.417	10.6	132
1430340	3	0.441	11.2	159
1430440	4	0.476	12.1	194
1430540	5	0.539	13.7	251
1430640	6	0.583	14.8	291
1430740	7	0.583	14.8	308
▶ 10 AWG (≈ 78/28) ▪ 6.00 mm²				
1430260	2	0.465	11.8	172
1430360	3	0.496	12.6	224
1430460	4	0.539	13.7	269
1430560	5	0.606	15.4	333

Other dimensions and colors are available on request