

High Temperature Cables

BiHF/Cu/Bi-J

Shielded 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
Inner jacket:	Besilen® EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
Shielding:	tinned copper braiding
Jacket material:	Besilen® EM9 acc. to EN 50363-2-1 + VDE 0207-363-2-1
Jacket color:	reddish brown (similar RAL 3016)

Outstanding features:

- 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

20

item no.	no. of conductors incl. ground	outer-ø ± 5% inch	outer-ø ± 5% mm	cable weight ≈lbs/mft
▶ 20 AWG (≈ 16/32) ▪ 0.50 mm²				
1900205	2	0.299	7.6	56
1900305	3	0.311	7.9	60
1900405	4	0.327	8.3	67
1900505	5	0.350	8.9	77
1900705	7	0.370	9.4	89
1901005	10	0.457	11.6	128
1901205	12	0.469	11.9	142
1901605	16	0.531	13.5	179
1901805	18	0.551	14.0	196
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
1900207	2	0.323	8.2	67
1900307	3	0.335	8.5	73
1900407	4	0.354	9.0	83
1900507	5	0.382	9.7	93
1900707	7	0.421	10.7	122
1901007	10	0.528	13.4	171
1901207	12	0.539	13.7	189
1901607	16	0.587	14.9	224
1901807	18	0.642	16.3	269

item no.	no. of conductors incl. ground	outer-ø ± 5% inch	outer-ø ± 5% mm	cable weight ≈lbs/mft
▶ 18 AWG (≈ 30/32) ▪ 1.00 mm²				
1900210	2	0.331	8.4	72
1900310	3	0.343	8.7	80
1900410	4	0.366	9.3	91
1900510	5	0.398	10.1	106
1900710	7	0.433	11.0	135
1901010	10	0.551	14.0	190
1901210	12	0.555	14.1	208
1901610	16	0.634	16.1	271
1901810	18	0.661	16.8	301
▶ 16 AWG (≈ 27-29/30) ▪ 1.50 mm²				
1900215	2	0.370	9.4	92
1900315	3	0.398	10.1	111
1900415	4	0.425	10.8	128
1900515	5	0.457	11.6	147
1900715	7	0.504	12.8	182
1901015	10	0.646	16.4	273
1901215	12	0.661	16.8	300
1901615	16	0.732	18.6	362
1901815	18	0.764	19.4	404

item no.	no. of conductors incl. ground	outer-ø ± 5% inch	outer-ø ± 5% mm	cable weight ≈lbs/mft
▶ 14 AWG (≈ 46/30) ▪ 2.50 mm²				
1900225	2	0.433	11.0	134
1900325	3	0.453	11.5	152
1900425	4	0.500	12.7	184
1900525	5	0.551	14.0	220
1900725	7	0.591	15.0	263

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