

SILICONE CABLES

also possible
with extremely notch
resistant sheath



BiHF/Cu/Bi-J Shielded Silicone insulated strands with Silicone outer jacket



BiHF/Cu/Bi-J is a multi-conductor, shielded, silicone insulated control cable with a reddish brown silicone jacket. Silicone cables are recommended for use where high temperatures 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:

Conductor:	tinned copper strands acc. to IEC 60228, EN 60228, VDE 0295, class 5
Insulation:	Besilen® EI2 acc. to DIN VDE 0282 part 1 and HD 22.1
Color code:	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
Stranding:	in layers
Inner jacket:	Besilen® EM9 acc. to DIN 0282 part 1 + HD 22.1
Screen:	tinned copper braiding
Jacket material:	Besilen® EM9 acc. to DIN 0282 part 1 + HD 22.1
Jacket color:	reddish brown

Outstanding features:

- good EMC characteristics
- halogen-free
- flexible at low temperatures
- heat resistant
- increased mechanical protection

Technical data:

Nominal voltage:	U ₀ /U 300/500 V
Testing voltage:	2000 V conductor/screen 1000 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>flexing:</i>	-25/+180 °C
<i>short-time use:</i>	+250 °C
Zero halogen:	acc. to DIN VDE 0472 part 815 and IEC 60754-1
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2
Corrosivity:	in compliance with IEC 60754-2 + EN 50267-2-2 + VDE 0482 part 267-2-2 - no development of corrosive conflagration gases
Chem. resistance:	see page N/9
Weather resistance:	very good
Absence of harmful substances:	acc. to RoHS directive of the European Union see page N/28

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item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of conductors incl. ground	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 20 AWG (≈ 16/32) • 0.50 mm ²					▶ 18 AWG (≈ 30/32) • 1.00 mm ²					▶ 14 AWG (≈ 46/30) • 2.50 mm ²				
01900205	2	0.299	7.6	56	01900210	2	0.331	8.4	72	01900225	2	0.433	11.0	134
01900305	3	0.311	7.9	60	01900310	3	0.343	8.7	80	01900325	3	0.453	11.5	152
01900405	4	0.327	8.3	67	01900410	4	0.366	9.3	91	01900425	4	0.500	12.7	184
01900505	5	0.350	8.9	77	01900510	5	0.398	10.1	106	01900525	5	0.551	14.0	220
01900705	7	0.370	9.4	89	01900710	7	0.433	11.0	135	01900725	7	0.591	15.0	263
01901005	10	0.457	11.6	128	01901010	10	0.551	14.0	190	Other dimensions and colors are possible on request.				
01901205	12	0.469	11.9	142	01901210	12	0.555	14.1	208					
01901605	16	0.531	13.5	179	01901610	16	0.634	16.1	271					
01901805	18	0.551	14.0	196	01901810	18	0.661	16.8	301					
▶ 19 AWG (≈ 23/32) • 0.75 mm ²					▶ 16 AWG (≈ 27-29/30) • 1.50 mm ²									
01900207	2	0.323	8.2	67	01900215	2	0.370	9.4	92					
01900307	3	0.335	8.5	73	01900315	3	0.398	10.1	111					
01900407	4	0.354	9.0	83	01900415	4	0.425	10.8	128					
01900507	5	0.382	9.7	93	01900515	5	0.457	11.6	147					
01900707	7	0.421	10.7	122	01900715	7	0.504	12.8	182					
01901007	10	0.528	13.4	171	01901015	10	0.646	16.4	273					
01901207	12	0.539	13.7	189	01901215	12	0.661	16.8	300					
01901607	16	0.587	14.9	224	01901615	16	0.732	18.6	362					
01901807	18	0.642	16.3	269	01901815	18	0.764	19.4	404					