

Product Highlights

- Rated to 200°C Class H
- Grade A (7,000V)
- VW-1 sizes up to 1"
- FAR Part 25
- UL File Recognized Component for sizes up to 1"
- CSA File #LR58703
- MIL-I-3190/6 - QPL
- NEMA 5
- Expands 25% or more in diameter without damage
- Applicable Documents
 - ASTM D-350
 - ASTM D-372
 - UL 1441
- Available in AWG sizes #14 through 1" I.D.
- Available in blue/gray color only



Ben-Har™ 1151-FRB Silicone Rubber Coated Fiberglass Sleeving

Bentley-Harris® Ben-Har 1151-FRB is a rugged, flame-retardant, silicone rubber coated sleeving that provides excellent cut-through and abrasion protection for wiring systems in applications with temperatures ranging from -70°C to 200°C. Because the specially formulated silicone rubber is extrusion coated over the non-combustible fiberglass braid, it results in a reinforced sleeving that is superior to ordinary dip-coated sleeving and unreinforced rubber or plastic tubing.

The improved flame-retardant characteristics mean that 1151-FRB is difficult to ignite, has a very slow rate of burn travel and self-extinguishes promptly - even after bottom ignition of a vertical specimen. 1151-FRB is used to separate/isolate/insulate critical circuits and conductors, as a thermal barrier for limited periods, as identification marking, or as a wire bundling mechanism. It is ideal for protecting wiring systems in modern jet aircraft against abrasion, impact, harmful drip, splash or spray. Qualified by major U.S. airframe manufacturers, 1151-FRB meets all of the performance requirements of MIL-I-3190/6.

Ben-Har 1151-FRB is resistant to hydraulic fluids (including Skydrol LD), jet fuels, inorganic acids, and alkalis. Some swelling occurs in aromatic hydrocarbons and chlorinated solvents.

Performance Data – Ben-Har™ 1151-FRB

Property	Result
Hardness, durometer: ASTM D-2240, shore A	50 +/-5
Tensile strength: ASTM D-412	1300 psi
Elongation: ASTM D-412	450%
Tear resistance: ASTM D624	100 psi
Flammability	Passes FAR Part 25

UL Recognized Component for sizes up to 1"

Product Specifications

NEMA Size	Nominal Diameter (inches)	Nominal Diameter (mm)	Bentley-Harris Part Number	Maximum Diameter (inches)	Minimum Diameter (inches)
14	0.066	1.68	3250191415	0.072	0.064
12	0.085	2.16	3250191215	0.089	0.081
10	0.106	2.69	3250191015	0.112	0.102
9	0.118	3.00	3250190915	0.124	0.114
8	0.133	3.38	3250190815	0.141	0.129
7	0.148	3.76	3250190715	0.158	0.144
6	0.166	4.22	3250190615	0.178	0.162
5	0.186	4.72	3250190515	0.198	0.182
4	0.208	5.28	3250190415	0.224	0.204
3	0.234	5.94	3250190315	0.249	0.229
2	0.263	6.68	3250190215	0.278	0.258
1	0.294	7.47	3250190115	0.311	0.289
0	0.330	8.38	3250190015	0.347	0.325
3/8"	0.375	9.52	3250101015	0.399	0.375
7/16"	0.438	11.12	3250101115	0.462	0.438
1/2"	0.500	12.70	3250101315	0.524	0.500
5/8"	0.625	15.87	3250101615	0.655	.0625
3/4"	0.750	19.05	3250101915	0.786	0.750
7/8"	0.875	22.22	3250102215	0.911	0.875
1"	1.000	25.40	3250102515	1.036	1.000

°C	°F
538	1000
527	980
516	960
504	940
493	920
482	900
471	880
460	860
449	840
438	820
427	800
416	780
404	760
393	740
382	720
371	700
360	680
349	660
338	640
327	620
316	600
304	580
293	560
282	540
271	520
260	500
249	480
238	460
227	440
216	420
204	400
193	380
182	360
171	340
160	320
149	300
138	280
127	260
116	240
104	220
99	210
88	190
77	170
66	150
54	130
43	110
38	100
35	95
30	86
25	77
20	68
15	59
10	50
5	41
0	32
-5	23
-10	14
-15	5
-18	0
-20	-4
-40	-40
-60	-76
-70	-94



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