

Product Highlights

- Operating temperature
-70°C to +200°C
(-94°F to +392°F)
Class H
- Grade A (7,000V)
- Meets VW-1
- FAR Part 25
- MIL-I-3190/6
- NEMA 5
- Expands 25% or more
in diameter without
damage
- Available in blue/gray
color only



Ben-Har™ 1151-FRB Grade A 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 Grade A 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 Grade A 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 Grade A meets all of the performance requirements of MIL-I-3190/6.

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



Our manufacturing sites are
certified ISO 9001, IATF 16949,
or AS/EN 9100, ISO 14001
and ISO 45001 (Selected Sites)

Performance Data – Ben-Har™ 1151-FRB Grade A

Property	Test Method	Result
Operating temperature range		-70°C to +200°C (-94°F to +392°F)
Hardness, durometer	ASTM D240, Shore A	50 +/- 5
Fungus Resistance	MIL-I-631	No Growth
Smoke Density	ASTM E-662 (4 minutes)	D _s < 70
Dielectric Breakdown	ASTM D149	7 kV Minimum
Flammability	FAR Part 25 (12 seconds, vertical)	Pass

All numeric performance data shows average or typical values. Please consult your sales representative for product drawings, test reports and OEM approvals.

Product Specifications

Commercial Part Number	Recommended Application Range mm (in)		Maximum Weight g/m (lb/ft)	Standard Packaging m (ft)
	Min Ø	Max Ø		
Ben-Har 1151-FR B Grade A 1.7-6	1.6 (0.064)	1.9 (0.074)	8.7 (0.0058)	610 (2000)
Ben-Har 1151-FR B Grade A 2.2-6	2.1 (0.081)	2.3 (0.091)	10.5 (0.0070)	305 (1000)
Ben-Har 1151-FR B Grade A 2.7-6	2.6 (0.102)	2.8 (0.112)	11.1 (0.0075)	305 (1000)
Ben-Har 1151-FR B Grade A 3-6	2.9 (0.114)	3.1 (0.124)	14.1 (0.0095)	305 (1000)
Ben-Har 1151-FR B Grade A 3.4-6	3.3 (0.129)	3.6 (0.141)	15.2 (0.0102)	305 (1000)
Ben-Har 1151-FR B Grade A 3.8-6	3.7 (0.144)	4.0 (0.158)	17.4 (0.0117)	305 (1000)
Ben-Har 1151-FR B Grade A 4.2-6	4.1 (0.162)	4.5 (0.178)	24.1 (0.0162)	152 (500)
Ben-Har 1151-FR B Grade A 4.7-6	4.6 (0.182)	5.0 (0.198)	24.7 (0.0166)	152 (500)
Ben-Har 1151-FR B Grade A 5.3-6	5.2 (0.204)	5.7 (0.224)	28.0 (0.0188)	152 (500)
Ben-Har 1151-FR B Grade A 5.9-6	5.8 (0.229)	6.3 (0.249)	28.8 (0.0194)	152 (500)
Ben-Har 1151-FR B Grade A 6.7-6	6.6 (0.258)	7.1 (0.278)	41.4 (0.0278)	76 (250)
Ben-Har 1151-FR B Grade A 7.5-6	7.3 (0.289)	7.9 (0.311)	58.0 (0.0389)	76 (250)
Ben-Har 1151-FR B Grade A 8.4-6	8.3 (0.325)	8.8 (0.347)	61.9 (0.0416)	76 (250)
Ben-Har 1151-FR B Grade A 10-6	9.5 (0.375)	10.1 (0.399)	63.4 (0.0426)	76 (250)
Ben-Har 1151-FR B Grade A 11-6	11.1 (0.438)	11.7 (0.462)	90.1 (0.0605)	38 (125)
Ben-Har 1151-FR B Grade A 13-6	12.7 (0.500)	13.3 (0.524)	138.5 (0.0930)	38 (125)
Ben-Har 1151-FR B Grade A 16-6	15.9 (0.625)	16.6 (0.655)	149.7 (0.1005)	15 (50)
Ben-Har 1151-FR B Grade A 19-6	19.1 (0.750)	20.0 (0.786)	187.2 (0.1257)	15 (50)
Ben-Har 1151-FR B Grade A 22-6	22.2 (0.875)	23.1 (0.911)	270.3 (0.1815)	15 (50)
Ben-Har 1151-FR B Grade A 25-6	25.4 (1.000)	26.3 (1.036)	301.1 (0.2022)	15 (50)

Part Numbering System

Example	Product Name	Size	Color	Quantity
	Ben-Har 1151-FRB Grade A	4.2	6 (Blue/gray)	152m (500 ft)



United States: (1) 800 926 2472 • México: (52) 442 101 8100 • Brazil: (55) 19 3116 1600
 EMEA: (33) 3 44 39 06 06 • Japan: (81) 45 330 0300 • China: (86) 21 6182 7560
 Southeast Asia: (66) 35 276 400 • Korea: (82) 44 861 6368 • India: (91) 124 4784565
www.tennecosp.com



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