

- Rated to 240°C + Class C
- Excellent low temperature flexibility
- UL Recognized Component for sizes up to 3/4"
- Available in AWG sizes #24 through 3/4" I.D
- VW-1 sizes up to 3/4"
- Applicable Documents
ASTM D-350
ASTM D-372
UL 1441
NEMA TF-1



Heat Treated Fiberglass Sleeving (Unsaturated)

Ben-Har™ ST is a braided, heat treated fiberglass sleeving made of continuous filament E glass. Heat treated fiberglass sleeveings were pioneered to provide the fray resistance necessary in most assembly operations. The heat treatment burns off any low temperature contaminants, insures purity and low off gas content and promotes bonding or saturating where desired.

Ben-Har™ ST sleeving is a UL Recognized Component meeting VW-1 flammability requirements. It is completely unsaturated and provides the greatest possible flexibility with the absolute minimum organic content. Its fray resistance makes practical the use of short lengths and the roundness of the sleeving greatly facilitates wire insertion. The special heat treatment of the fiberglass braid prepares the sleeving for bonding with epoxies, impregnants and varnishes resulting in a superior reinforcement between the fiberglass and the encapsulant or varnish.

Ben-Har™ ST is not affected by temperatures up to 240°C, and can withstand higher temperatures up to the melting point of glass (760°C.) The sleeving withstands normal assembly handling, cut-through, and mechanical stress without the loss of insulating capability, however performance is determined by wall thickness (about 1/64".) Ben-Har™ ST shows no effect when exposed to 10 megarads of radiation. It has a nominal outgassing of 0.25% by weight after four hours at 250°C



Product Specifications – Ben-Har™ ST

NEM A Size	Nominal Diameter (inches)	Nominal Diameter (mm)	Bentley-Harris Part Number	Maximum Diameter (inches)	Minimum Diameter (inches)
24	0.022	0.56	3700792401	0.027	0.020
22	0.027	0.69	3700792201	0.032	0.025
20	0.034	0.86	3700792001	0.039	0.032
19	0.038	0.96	3700791901	0.044	0.036
18	0.042	1.07	3700791801	0.049	0.040
17	0.047	1.19	3700791701	0.055	0.045
16	0.053	1.35	3700791601	0.061	0.051
15	0.059	1.50	3700791501	0.066	0.057
14	0.074	1.88	3700791401	0.072	0.064
13	0.076	1.93	3700791301	0.080	0.072
12	0.091	2.31	3700791201	0.089	0.081
11	0.095	2.41	3700791101	0.101	0.091
10	0.106	2.69	3700791001	0.112	0.102
9	0.118	3.00	3700790901	0.124	0.114
8	0.133	3.38	3700790801	0.141	0.129
7	0.148	3.76	3700790701	0.158	0.144
6	0.166	4.22	3700790601	0.178	0.162
5	0.186	4.72	3700790501	0.198	0.182
4	0.208	5.28	3700790401	0.224	0.204
3	0.234	5.94	3700790301	0.249	0.229
2	0.263	6.68	3700790201	0.278	0.258
1	0.294	7.47	3700790101	0.311	0.289
0	0.330	8.38	3700790001	0.347	0.325
3/8"	0.375	9.52	3700701001	0.399	0.375
7/16"	0.438	11.12	3700701101	0.462	0.438
1/2"	0.500	12.70	3700701301	0.524	0.500
5/8"	0.625	15.87	3700701601	0.655	.0625
3/4"	0.750	19.05	3700701901	0.786	0.750

°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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