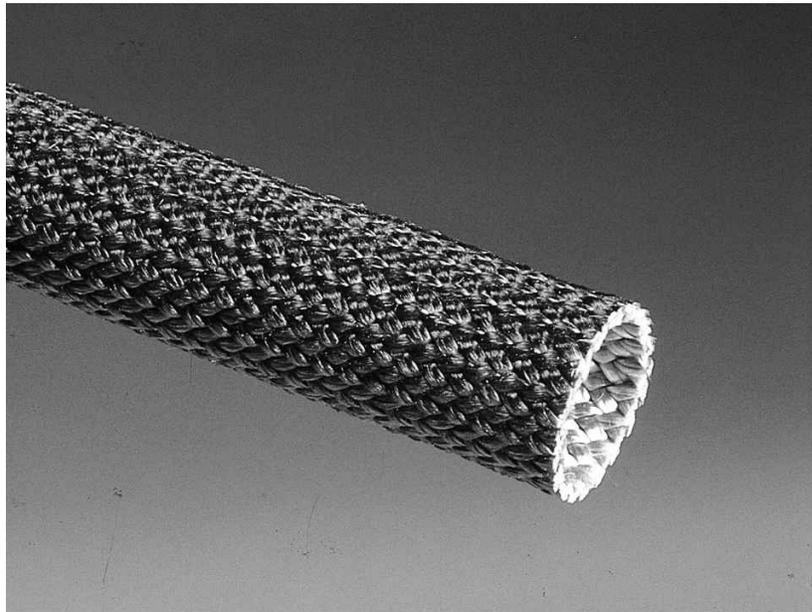


## Product Highlights

- Rated to 240°C + Class C
- VW-1 sizes up to 3/4"
- UL Recognized Component for sizes up to 3/4"
- CSA File #LR58703
- Applicable Documents  
ASTM D-350  
ASTM D-372  
NEMA TF-1
- Excellent low temperature flexibility
- Available in AWG sizes #24 through 3/4" I.D.
- Standard colors include natural and black



# Ben-Har™ Ex-Flex

## Heat Treated, Fray-Resistant Fiberglass Sleeving (Saturated)

Bentley-Harris® Ben-Har Ex-Flex is a braided fiberglass sleeving which is heat treated and saturated to prevent end fray and increase ease of handling. This product was developed by Bentley-Harris to meet end fray resistance needs of most assembly operations and for high temperature applications where ordinary film varnish and impregnants cannot be used.

Ben-Har Ex-Flex withstands normal assembly handling, cut-through, and mechanical stress without the loss of insulating capability. However, performance is determined by wall thickness. The sleeving is stable in the presence of most organic solvents, and shows no effect when exposed to 10 megarads of radiation.

Ben-Har Ex-Flex should be considered where assembly conditions or color requirements dictate use of fray retarding or pigment saturant. If subsequent service or accidental temperatures exceed 240°C, the saturant will gradually volatilize without toxic or excessive fumes or smoke.

Ben-Har Ex-Flex is used extensively in wire harness assemblies where its flexibility and ease of expansion over irregular terminals and groups of wires makes application easy. It is also used as supplementary insulation on HPN type heater cord leads to protect the primary insulation from mechanical damage and thermal degradation. It will not contaminate delicate terminals or corrode any exposed surfaces. Ex-Flex can be applied in sealed environments, such as steam-dry irons, where the high temperature distillates or ordinary impregnants could damage contacts.

**BentleyHarris®**  
Protection Products

# Product Specifications – Ben-Har™ Ex-Flex

NEMA Size	Nominal Diameter (inches)	Nominal Diameter (mm)	Bentley-Harris Part Number	Maximum Diameter (inches)	Minimum Diameter (inches)
24	0.022	0.56	36007924XX	0.027	0.020
22	0.027	0.69	36007922XX	0.032	0.025
20	0.034	0.86	36007920XX	0.039	0.032
18	0.042	1.07	36007918XX	0.049	0.040
16	0.053	1.35	36007916XX	0.061	0.051
14	0.066	1.68	36007914XX	0.072	0.064
12	0.085	2.16	36007912XX	0.089	0.081
11	0.095	2.41	36007911XX	0.101	0.091
10	0.106	2.69	36007910XX	0.112	0.102
9	0.118	3.00	36007909XX	0.124	0.114
8	0.133	3.38	36007908XX	0.141	0.129
7	0.148	3.76	36007907XX	0.158	0.144
6	0.166	4.22	36007906XX	0.178	0.162
5	0.186	4.72	36007905XX	0.198	0.182
4	0.208	5.28	36007904XX	0.224	0.204
3	0.234	5.94	36007903XX	0.249	0.229
2	0.263	6.68	36007902XX	0.278	0.258
1	0.294	7.47	36007901XX	0.311	0.289
0	0.330	8.38	36007900XX	0.347	0.325
3/8"	0.375	9.52	36007010XX	0.399	0.375
7/16"	0.438	11.12	36007011XX	0.462	0.438
1/2"	0.500	12.70	36007013XX	0.524	0.500
5/8"	0.625	15.87	36007016XX	0.655	0.625
3/4"	0.750	19.05	36007019XX	0.786	0.750

XX = Color Code      01 = Natural      03 = Black

- UL Recognized Component for sizes up to 3/4"

°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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