

Western Filament lacing tapes are flat braided yarns in accordance with MIL-T-43435, and m

TO ORDER, THE FOLLOWING IS REQUIRED

TYPE I

NYLON LACING TAPES

Type I lacing tapes are braided of high tenacity nylon (polyamide) yarns impregnated with an appropriate finish. Approximate operating temperature range is -67°F (-55°C) to 325°F (162°C). Standard colors are Natural and Black; special colors on request.

Western Filament Part Number	Mil Spec Size	Width Inches ± 10%	Thickness ± 0.003"	Min. Break Strength (lbs)	Spool Size (yds)
150NOF29	1	.200	.016	135	250
80NOF29	2	.110	.015	80	250
50NOF17	3	.085	.014	50	500
35NOF13	4	.060	.012	25	500
25NOF9	5	.050	.010	15	500
15NOF9	—	.040	.012	15	500

AVAILABLE FINISHES:

- ☒ Uncoated (Mil-Spec: A)
 ☐ Wax (Mil-Spec: B)
 ☐ Synthetic Elastomer (Mil-Spec: C)
 ☐ Vinyl Chloride (Mil-Spec: E)
 ☐ Liquid Nylon (Mil Spec: G)
- ☐ Synthetic Rubber (Mil-Spec: C)

TYPE II

POLYESTER LACING TAPES

Type II lacing tapes are braided of high tenacity polyester yarns, impregnated with an appropriate finish. Approximate operating temperature range is -100°F (-73°C) to 350°F (177°C). Standard colors are Natural and Black; special colors on request.

Western Filament Part Number	Mil Spec Size	Width Inches ± 10%	Thickness ± 0.003"	Min. Break Strength (lbs)	Spool Size (yds)
145DOF29	1	.200	.016	135	250
80DOF29	2	.110	.015	80	250
50DOF17	3	.085	.014	50	500
35DOF13	4	.060	.012	25	500
20DOF9	5	.050	.010	15	500
15DOF9	—	.040	.012	15	500

AVAILABLE FINISHES:

- ☒ Uncoated (Mil-Spec: A)
 ☐ Wax (Mil-Spec: B)
 ☐ Synthetic Elastomer (Mil-Spec: C)
 ☐ Vinyl Chloride (Mil-Spec: E)
 ☐ Synthetic Rubber (Mil-Spec: C)

TYPE III

TEFLON LACING TAPES

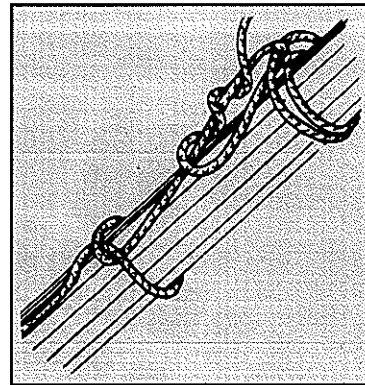
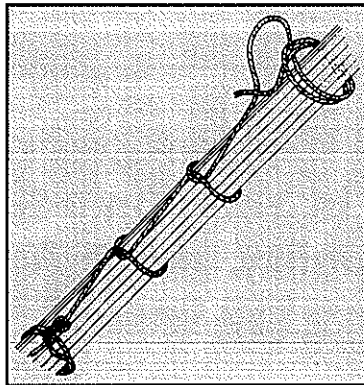
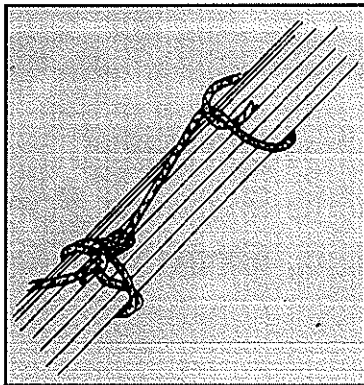
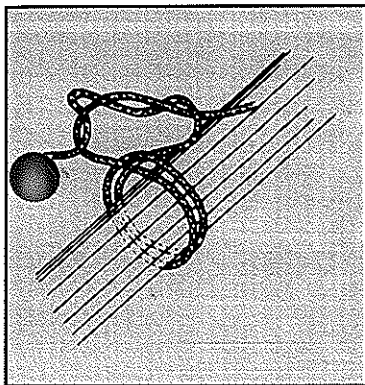
Type III lacing tapes are braided of Teflon (TFE-fluorocarbon) yarns, highly resistant to fuels and chemicals; recommended for hard vacuum/low outgassing applications. Approximate temperature range is -100°F (-73°C) to 450°F (232°C). Standard color is Dark Brown.

Western Filament Part Number	Mil Spec Size	Width Inches ±10%	Thickness ±0.003"	Min. Break Strength (lbs)	Spool Size (yds)
35TOF29	2	.120	.011	30	250
15TOF13	4	.065	.011	15	500
10TOF9	5	.025	.011	10	500

AVAILABLE FINISHES:

- ☒ Uncoated (Mil-Spec: A)
 ☐ Synthetic Elastomer (Mil-Spec: C)

THE INFORMATION AND ILLUSTRATIONS GIVEN HEREIN ARE BELIEVED TO BE RELIABLE. WESTERN FILAMENT MAKES NO WARRANTIES AS TO THEIR ACCURACY OR COMPLETENESS AND DISCLAIMS ANY LIABILITY IN CONNECTION WITH THEIR USE. WESTERN FILAMENT'S ONLY OBLIGATIONS ARE THOSE IN THE STANDARD TERMS OF SALE FOR THIS PRODUCT AND WESTERN FILAMENT WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR OTHER DAMAGES ARISING OUT OF THE USE OR MISUSE OF THIS PRODUCT. USERS SHOULD MAKE THEIR OWN EVALUATION TO DETERMINE THE SUITABILITY OF THE PRODUCT FOR SPECIFIC APPLICATIONS.



manufactured from continuous filament
all other industry lacing tape specifications.

TYPE - SIZE - FINISH - COLOR

TYPE IV

TEFLON COATED FIBERGLASS LACING TAPES

Type IV lacing tapes are braided of glass yarns individually coated with Teflon (Tetrafluoro carbon) Mil-Spec D finish before braiding. An additional coating must be specified if knot holding or fray resistance is required. These high temperature and fluid resistant tapes are recommended for hard vacuum/low outgassing applications. Approximate temperature range is -100°F (-73°C) to 800°F (427°C). Standard color is White. Black available upon request.

Western Filament Part Number	Mil Spec Size	Width Inches ± 10%	Thickness ± 0.003"	Min. Break Strength (lbs)	Spool Size (yds)
275LOF29	1	.225	.016	200	250
190LOF21	2	.110	.016	100	250
100LOF15	3	.085	.016	75	500
60LOF13	4	.060	.016	50	500
50LOF9	5	.050	.016	—	500

AVAILABLE FINISHES:

- ☒ Uncoated (Mil-Spec: D)
 ☒ Wax (Mil-Spec: B)
 ☒ Silicone (Mil-Spec: F)
 ☒ Synthetic Elastomer (Mil-Spec: C)
 ☒ Vinyl Chloride (Mil-Spec: E)
- ☒ Synthetic Rubber (Mil-Spec: C)
 ☒ G/A Vinyl Chloride Over Synthetic Rubber

TYPE V

NOMEX LACING TAPE

Type V lacing tapes are braided of high temperature Nomex® aramid fibers and impregnated with an appropriate finish. Approximate operating temperature is -100°F (73°C) to 500°F (260°C). Standard color is White, others available upon request.

Western Filament Part Number	Mil Spec Size	Width Inches ± 10%	Thickness ± 0.003"	Min. Break Strength (lbs)	Spool Size (yds)
130HOF25	1	.200	.016	85	250
70HOF25	2	.110	.014	50	250
40HOF17	3	.075	.012	35	500
30HOF13	4	.055	.010	25	500
20HOF9	—	.040	.008	15	500

AVAILABLE FINISHES:

- ☒ Uncoated (Mil-Spec: A)
 ☒ Wax (Mil-Spec: B)
 ☒ Synthetic Elastomer (Mil-Spec: C)
 ☒ Silicone (Mil-Spec: F)
 ☒ Liquid Nylon (Mil Spec: G)
- ☒ Synthetic Rubber (Mil-Spec: C)

Coatings & Finishes Available

HOW TO ORDER:

Example: Mil-T-43435

Type 1/Size 3 Finish C Color Black

50NOF17

G

Blk

W.F. Part #

Coating

Color

Mil Spec. Finish Designation	Western Filament Designation	Coating Type	% Coating (by weight)
A	X	Uncoated	0
B	W	Wax	15-32
C	G	Synthetic rubber (std)	7-17
	R	Synthetic rubber for thermal vacuum stability requirement	
D	LOF	Yarns impregnated with Teflon before braiding	10-20
E	A	Vinyl chloride	15-30
F	S	Silicone resin	7-17
G	N	Liquid nylon	4-14

★ AVAILABLE WITH FR FORMULATION OF THE COATING.

Types of Lacing and Spot Tying Materials

For Aircraft, Electrical, Electronic and Space Vehicle Harnessing

FLAT BRAIDED TAPES

Per MIL-T-43435



Flat Braided Tapes are "second generation" lacing/spot tying construction. They are designed to provide maximum strength with minimum space requirements. Other advantages include increased gripping area and superior impregnation characteristics. Flat braided tapes are specified for most military and space oriented applications, and are currently finding increased usage among commercial, electrical and electronic manufacturers.

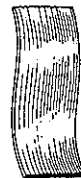
ROUND TWISTED TWINES

Per MIL-T-713



Round twisted constructions are used primarily by electrical and "non-flight" hardware producers. Primary advantages include low costs and established industry acceptance. Though round twisted constructions provide less "gripping" area on the bundle, and do not accept impregnation as completely as flat tapes, they still enjoy continued widespread usage throughout the industry.

NON-BRAIDED FLAT TAPES



Not to Military Specifications Nylon Mono-Ty constructions provide a low cost non-braided material for use in commercial electronics and non-flight hardware. Oriented Nylon fibers are formed into a flat ribbon-like construction and impregnated with microcrystalline wax. Mono-ty constructions exceed IBM 147440, and similar industry requirements.

MIL-T-713 TYPE P

NYLON LACING TAPE

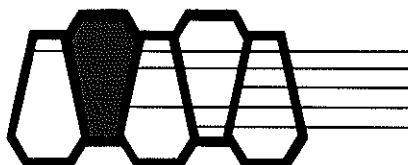
These round cords are twisted from high tenacity continuous filament nylon yarns. In addition to the microcrystalline fungicide wax finish specified in MIL-T-713, other finishes are available on request. Standard colors are Natural and Black.

Western Filament Part Number	Mil Spec Size	Min. Break Strength	Yield yds/lb Waxed/Unwaxed	Spool Size (yds)
70NOZ3	1	70	550/650	1 lb
48NOZ3	2	48	750/950	1 lb
32NOZ3	3	32	1100/1400	1 lb
20NOZ2	special	20	1975/2400	1 lb

MONO-TY

A low cost, non-braided, wax impregnated lacing tape for use in commercial harnessing applications. Approved on IBM #147440 and other industry specifications.

Western Filament Part Number	Min. Break Strength (lbs)	Yield yds./lbs	Spool Size (yds)
80NOS1W	80	540	1 lb
70NOS1W	70	580	1 lb or 750 yds
50NOS1W	50	820	1 lb
35NOS1W	35	1,240	1 lb



western filament, inc.

630 Hollingsworth Drive • Grand Junction, Colorado 81505
970-241-8780 FAX: 970-241-8682

are flat
35, and
OWING IS

per

te

MENT
Y IN
RMS
HER
OWN