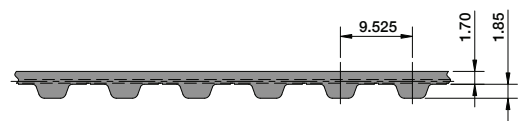


# L (T3/8")

# BFX IMPERIAL-SERIES



Truly Endless "BFX"		Specifications							
	Widths (inches) <small>In between widths available</small>	.25	.5	.75	1.0	1.5	2.0	3.0	4.0
	Widths (mm)	6.35	12.7	19.05	25.4	38.1	50.8	76.2	101.6
	Lengths	See Standard Lengths on pg 2 Additional lengths available up to 14,992.35mm (590.25"). In between lengths available starting at a minimum length of 723.9mm (28.5").							
	Available Options	Nylon facing tooth side (PAZ)							
Tension Member Options	Steel standard Hi-flex steel VA301 Stainless steel VA316 Hi-flex Stainless steel Kevlar®								

### Product Performance

Power Transmission	Rotational Speed	Peripheral Speed	Synchronous Pulley	Applications (Example)
≤ 30 kW	Approx. 10000 min <sup>-1</sup>	Approx. 60 ms <sup>-1</sup>	From z=12	Machine tools, main and subsidiary drives, textile machines, printing machinery

### Specifications

Timing Belt	Pitch (mm)	Code	Ultimate Tensile Strength (N/10mm belt width)	Maximum Allowable Tensile Strength (N/10mm belt width)	Specific Belt Stiffness Steel Reinforced (Per unit width/length)	Specific Belt Mass (per 10mm belt width, steel reinforced)
Imperial Series	L (T3/8")	BFX	2480	620	1.55 x 10 <sup>6</sup> N	0.035 kg/m

### Minimum Number of Pulley Teeth and Idler Diameter

Pitch (mm)	Min. # of Pulley Teeth (no back bending)	Min. # of Pulley Teeth (with back bending)	Min. Diameter of Flat Idler running on tooth side (mm)	Min. Diameter of Flat Idler running on belt back (mm)
L (T3/8")	15	20	60	60

### Standard Material

Up to 685.8 mm	TPUST3
From 723.9 mm	TPUST1 <sup>1)</sup>

### Standard Lengths

Pitch/Length Version	Length in mm	Number of Teeth	Pitch/Length Version	Length in mm	Number of Teeth	Pitch/Length Version	Length in mm	Number of Teeth
124 L	314.33	33	300 L	762.00	80	600 L	1524.00	160
150 L	381.00	40	322 L	819.15	86	630 L	1600.20	168
187 L	476.25	50	345 L	876.30	92	660 L	1676.40	176
202 L	514.35	54	367 L	933.45	98	705 L	1790.70	188
210 L	533.40	56	390 L	990.60	104	750 L	1905.00	200
225 L	571.50	60	420 L	1066.80	112	1102 L	2800.35	294
240 L	609.60	64	450 L	1143.00	120	2002 L	5086.35	534
255 L	647.70	68	480 L	1219.20	128	3000 L	7620.00	800
270 L	685.80	72	540 L	1371.60	144			
285 L	723.90	76	570 L	1447.80	152			

### Ordering Example: Polyurethane Timing Belt

[WIDTH] [PITCH] / [LENGTH] [CONSTRUCTION]

EX 1: 25.4 T3/8" / 762 BFX

EX 2: 300 L / 100 BFX

## Stock Pulleys

Tooth Type	Number of Teeth	Outside Diameter	Pitch Circle Diameter	Face Width	Pilot Bore	Part Number
L (T3/8")	z	d <sub>k</sub> (mm)	d <sub>o</sub> (mm)	B (mm)	d <sub>v</sub> (mm)	
BELT WIDTH = 25.4 mm	10	29.57	30.33	32	8	LS 40 T3/8" / 10-2 hub 22x8
	11	32.60	33.36	32	8	LS 40 T3/8" / 11-2 hub 24x8
	12	35.63	36.40	32	8	LS 40 T3/8" / 12-2 hub 28x8
	13	38.66	39.43	32	8	LS 40 T3/8" / 13-2 hub 30x8
	14	41.70	42.46	32	8	LS 40 T3/8" / 14-2 hub 33x8
	15	44.72	45.49	32	8	LS 40 T3/8" / 15-2 hub 36x8
	16	47.75	48.52	32	8	LS 40 T3/8" / 16-2 hub 38x8
	17	50.78	51.55	32	10	LS 40 T3/8" / 17-2 hub 40x8
	18	53.81	54.59	32	10	LS 40 T3/8" / 18-2 hub 40x8
	19	56.84	57.62	32	10	LS 40 T3/8" / 19-2 hub 40x8
	20	59.88	60.65	32	10	LS 42 T3/8" / 20-2 hub 46x10
	21	62.91	63.68	32	10	LS 42 T3/8" / 21-2 hub 46x10
	22	65.94	66.71	32	10	LS 42 T3/8" / 22-2 hub 50x10
24	72.00	72.78	32	12	LS 42 T3/8" / 24-2 hub 50x10	
BELT WIDTH = 50.8 mm	10	29.57	30.33	59	8	LS 69 T3/8" / 10-2 hub 22x10
	11	32.60	33.36	59	8	LS 69 T3/8" / 11-2 hub 24x10
	12	35.63	36.40	59	8	LS 69 T3/8" / 12-2 hub 28x10
	13	38.66	39.43	59	8	LS 69 T3/8" / 13-2 hub 30x10
	14	41.70	42.46	59	8	LS 69 T3/8" / 14-2 hub 33x10
	15	44.72	45.49	59	8	LS 69 T3/8" / 15-2 hub 36x10
	16	47.75	48.52	59	8	LS 69 T3/8" / 16-2 hub 38x10
	17	50.78	51.55	59	10	LS 69 T3/8" / 17-2 hub 40x10
	18	53.81	54.59	59	10	LS 69 T3/8" / 18-2 hub 40x10
	19	56.84	57.62	59	10	LS 69 T3/8" / 19-2 hub 40x10
	20	59.88	60.65	59	10	LS 69 T3/8" / 20-2 hub 46x10
	21	62.91	63.68	59	10	LS 69 T3/8" / 21-2 hub 46x10
	22	65.94	66.71	59	10	LS 69 T3/8" / 22-2 hub 50x10
24	72.00	72.78	59	12	LS 69 T3/8" / 24-2 hub 50x10	

### Ordering Example: Stock Pulleys

[MATERIAL]
[WIDTH OVER HUB]
[PITCH] / 
 [# OF TEETH]
[# OF FLANGES]
[HUB DIAMETER]
[HUB WIDTH]

LS
69
T(3/8") / 
 18 - 
 2 hub 
 40 x 
 10