



PowerGrip® Long-Length Belting

Long-Length belting is produced in Spiral form. Spiral cut belting is produced from a belt sleeve by moving the slitter laterally while the belt sleeve is rotating.

The resulting belting does not have continuous tensile cords, and the teeth are not perfectly perpendicular to the longitudinal axis of the belt. As long as the belt width is narrow, these properties have been found to contribute little if any detrimental effects to belt performance. Tensile modulus and strength are equivalent to conventional endless and long length belting.

This innovative product is available in all types of PowerGrip belting in all pitches. Reciprocating carriage drives requiring the use of higher performance curvilinear tooth belt products in long length form can now be easily handled. Contact Gates Product Application Engineering for specific application details and assistance in design.

Long Length Belting Specifications

Long-Length Belting Designations

PowerGrip Long-Length Belting is specified using the same width and pitch codes as standard PowerGrip belts, except that it includes an LL prefix and omits the length code. Thus a 250 ft. length of XL (.200 in) pitch belting in a 3/8 in. width carries the specification 250 ft. LL037XL.

Drive Selection With PowerGrip Long-Length Belting

Drive selection procedures for drives using Long-Length Belting are much the same as for drives using conventional endless belting. Refer to the appropriate product and engineering sections in this catalog for drive torque ratings, engineering information, sprocket details, belt tension recommendations, etc. Table 6 includes rated

belt working tension data, minimum belt tensile strength, and belt tensile modulus values for those applications for which it could be helpful, as well as minimum order quantities.

For drive design selection assistance with PowerGrip Long-Length Belting, contact Gates Product Application Engineering.

Table 6 – PowerGrip Long-Length Belting Specifications

Pitch	Width	Code	Rated Working Tension (Ta) (lb)							Fiberglass Cord		Minimum Order Quantity (ft)	Maximum Cont. Length (ft)
			Number of Pulley Grooves							Minimum Breaking Strength (lb)	Tension (lb) For 0.1% Elongation		
			12	14	16	18	20	30	45				
MXL (0.080 in)	1/4 in.	LL025MXL	5.3	5.3	5.3	5.3	5.3	5.3	5.3	120	5.2	50	475
	3/8 in.	LL037MXL	8.0	8.0	8.0	8.0	8.0	8.0	8.0	180	7.8	50	300
	1/2 in.	LL050MXL	11	11	11	11	11	11	11	270	10.4	50	240
XL (0.200 in)	1/4 in.	LL025XL	7.3	7.3	7.3	7.3	7.3	7.3	7.3	250	6.1	50	460
	3/8 in.	LL037XL	12	12	12	12	12	12	12	375	9.1	50	300
	1/2 in.	LL050XL	16	16	16	16	16	16	16	555	12.2	50	225
3M HTD (3mm)	6mm	LL3M06	18	18	19	19	20	22	25	230	7.0	50	300
	9mm	LL3M09	29	30	31	32	33	36	42	345	10.5	50	300
	15mm	LL3M15	53	54	55	57	58	65	74	640	19.5	50	185
5M HTD (5mm)	9mm	LL5M09	--	43	44	46	47	53	61	710	27.4	50	300
	15mm	LL5M15	--	82	84	86	88	99	116	1315	50.8	50	185
	25mm	LL5M25	--	146	150	154	158	178	207	2190	84.6	50	100
2MGT GT3 (2mm)	4mm	LL2MGT04	23	23	23	24	24	24	23	85	2.6	50	300
	6mm	LL2MGT06	38	39	39	39	39	39	39	125	3.8	50	300
	9mm	LL2MGT09	62	63	64	64	65	65	63	190	5.7	50	300
3MGT GT3 (3mm)	6mm	LL3MGT06	--	--	46	48	49	53	54	230	6.0	50	600
	9mm	LL3MGT09	--	--	76	79	81	87	89	345	8.9	50	385
	15mm	LL3MGT15	--	--	141	146	150	160	165	640	16.5	50	240
5MGT GT3 (5mm)	9mm	LL5MGT09	--	--	--	74	81	101	113	710	27.4	50	360
	15mm	LL5MGT15	--	--	--	138	151	188	210	1315	50.8	50	230

NOTE: The width tolerance on all long length spiral cut belting is +0.031 in. (0.8mm) –0.047 in. (1.2mm).

For non-standard belt widths, contact Gates Customer Service for minimum order quantity.

