



Force that
EMPOWERS

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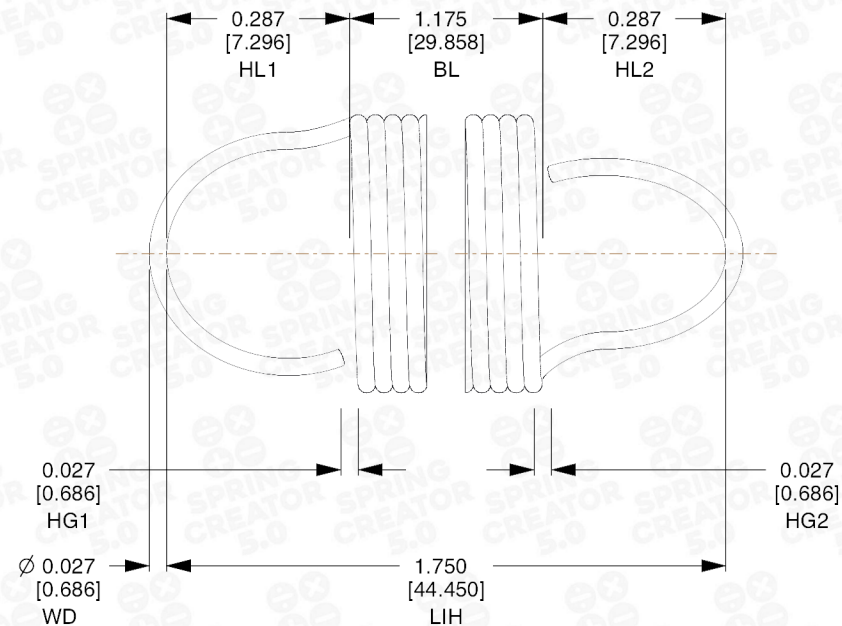
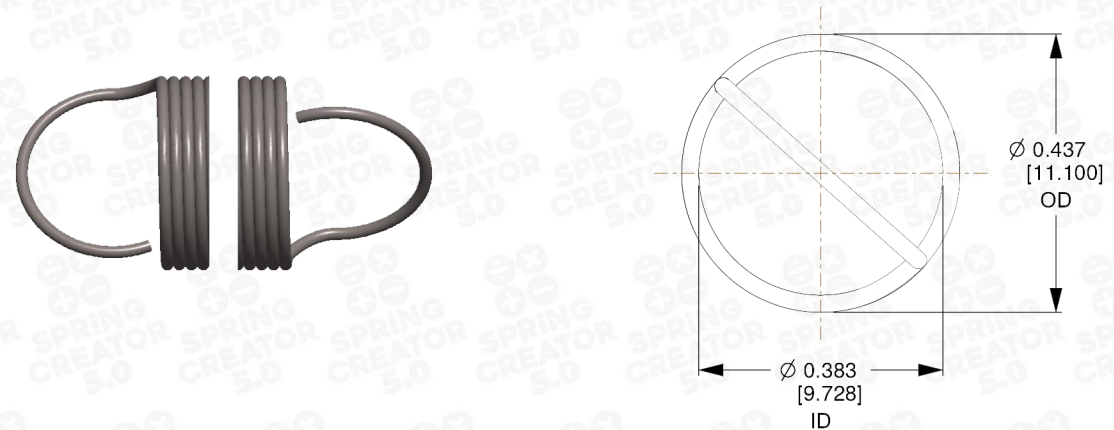
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Part Name:	Date: 06/02/2026
Part #: in (Click to see Part # on Website)	PE027-437-42538-MW-1750-MH-N-IN
Spring Type: Extension Spring	End Type: Machine Hook
Finish: None	Direction of Wind: Right Hand
Material: Music Wire ASTM A228	Spring Index (I): 15.185
Weight / M: 9.202 Lbs	Length of W: 56.562 in

Physical Dimensions	IN	MM	Tolerances (in)
Wire Diameter (WD)	0.027 in	[0.686 mm]	+/- 0.001
Outer Diameter (OD)	0.437 in	[11.100 mm]	+/- 0.008
Mean Diameter (MD)	0.410 in	[10.414 mm]	+/- 0.008
Inner Diameter (ID)	0.383 in	[9.728 mm]	+/- 0.008
Length Inside Hooks (LIH)	1.750 in	[44.450 mm]	+/- 0.050
Body Length (BL)	1.175 in	[29.845 mm]	+/- 0.050
Hook Gap 1 (HG1)	0.027 in	[0.686] mm	
Hook Gap 2 (HG2)	0.027 in	[0.686] mm	
Hook Length 1 (HL1)	0.287 in	[7.290] mm	
Hook Length 2 (HL2)	0.287 in	[7.290] mm	
Total Hook Length (THL)	0.575 in	[14.605] mm	

Spring Rate (K)	0.26054 lbs/in	0.046 N/mm	+/- 0.026
Max Load (ML)	2.232 lbf	9.927 N	+/- 0.223
Max Travel (MT)	8.066 in	204.876 mm	
Initial Tension (IT)	0.130 lbf	0.579 N	
Max Shear Stress Possible (t max)	158390.000 PSI	1092060607.638 Pa	
Material Shear Modulus (G)	11492970.929 PSI	79241245134.131 Pa	
Wahl Correction Factor (W)	1.093	1.093	



Note: Body Length, Total Coils, End Type and End Position is for reference only.

Notes	Scale: 3.318	Revision #:	Drawn By:	Approved By:
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