



By **ACCESS SPRING**

**Force that
EMPOWERS**

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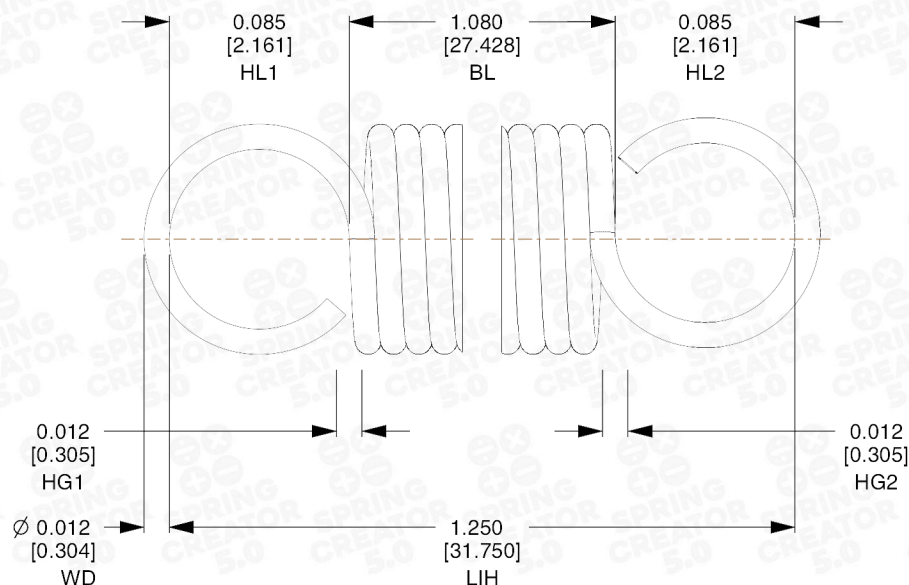
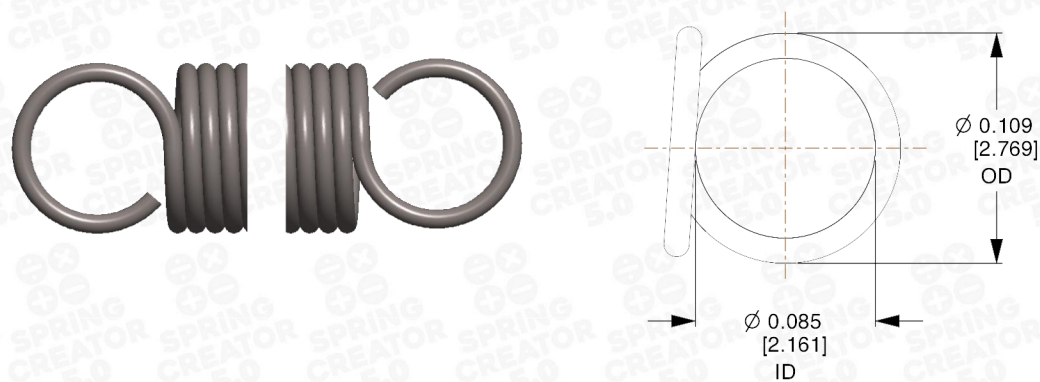
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Part Name:	Date: 06/02/2026
Part #: in (Click to see Part # on Website)	PE012-109-89000-MW-1250-SH-N-IN
Spring Type: Extension Spring	End Type: Side Hook
Finish: None	Direction of Wind: Right Hand
Material: Music Wire ASTM A228	Spring Index (I): 8.083
Weight / M: 0.897 Lbs	Length of W: 27.901 in

Physical Dimensions	IN	MM	Tolerances (in)
Wire Diameter (WD)	0.012 in	[0.305 mm]	+/- 0.001
Outer Diameter (OD)	0.109 in	[2.769 mm]	+/- 0.005
Mean Diameter (MD)	0.097 in	[2.464 mm]	+/- 0.005
Inner Diameter (ID)	0.085 in	[2.159 mm]	+/- 0.005
Length Inside Hooks (LIH)	1.250 in	[31.750 mm]	+/- 0.050
Body Length (BL)	1.080 in	[27.432 mm]	+/- 0.050
Hook Gap 1 (HG1)	0.012 in	[0.305] mm	
Hook Gap 2 (HG2)	0.012 in	[0.305] mm	
Hook Length 1 (HL1)	0.085 in	[2.159] mm	
Hook Length 2 (HL2)	0.085 in	[2.159] mm	
Total Hook Length (THL)	0.170 in	[4.318] mm	

Spring Rate (K)	0.36674 lbs/in	0.064 N/mm	+/- 0.037
Max Load (ML)	0.833 lbf	3.707 N	+/- 0.083
Max Travel (MT)	1.999 in	50.764 mm	
Initial Tension (IT)	0.100 lbf	0.446 N	
Max Shear Stress Possible (t max)	177190.000 PSI	1221682044.747 Pa	
Material Shear Modulus (G)	11492970.929 PSI	79241245134.131 Pa	
Wahl Correction Factor (W)	1.182	1.182	



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

Notes	Scale: 11.009	Revision #:	Drawn By:	Approved By:
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