



MacLean Power Systems  
 7801 Park Place Rd., York, SC 29745  
 USA (803) 628-2100

MPS Catalog Number

**H7 90 U0 018 MX SS 009**

Revision: PD-1

Date 4/5/2023

**End Fittings**

Tower End Fitting:  
 Line End Fitting:

1 Piece Gain Base (Aluminum)  
 Universal Trunnion (Aluminum)  
 Conductor Range 0.20" - 1.34" (6.35mm 34mm)  
 Recommended Torque: 60 lb\*ft

**Material**

Number of Sheds: 9  
 Rod Diameter: 1-3/4"  
 Weight Estimate: 18.0 lbs 8.2 kg

**Dimensional Values**

Section Length (L): 27.7 in 673 mm  
 Rubber Length (X): 18.0 in 456 mm  
 Shed Height (P): 2.4 in 62 mm  
 Shed Diameter (B): 6.9 in 175 mm  
 Shed Spacing (S): 2.0 in 52 mm  
 Dry Arc Distance: 20.8 in 529 mm  
 Leakage Distance: 58.2 in 1478 mm

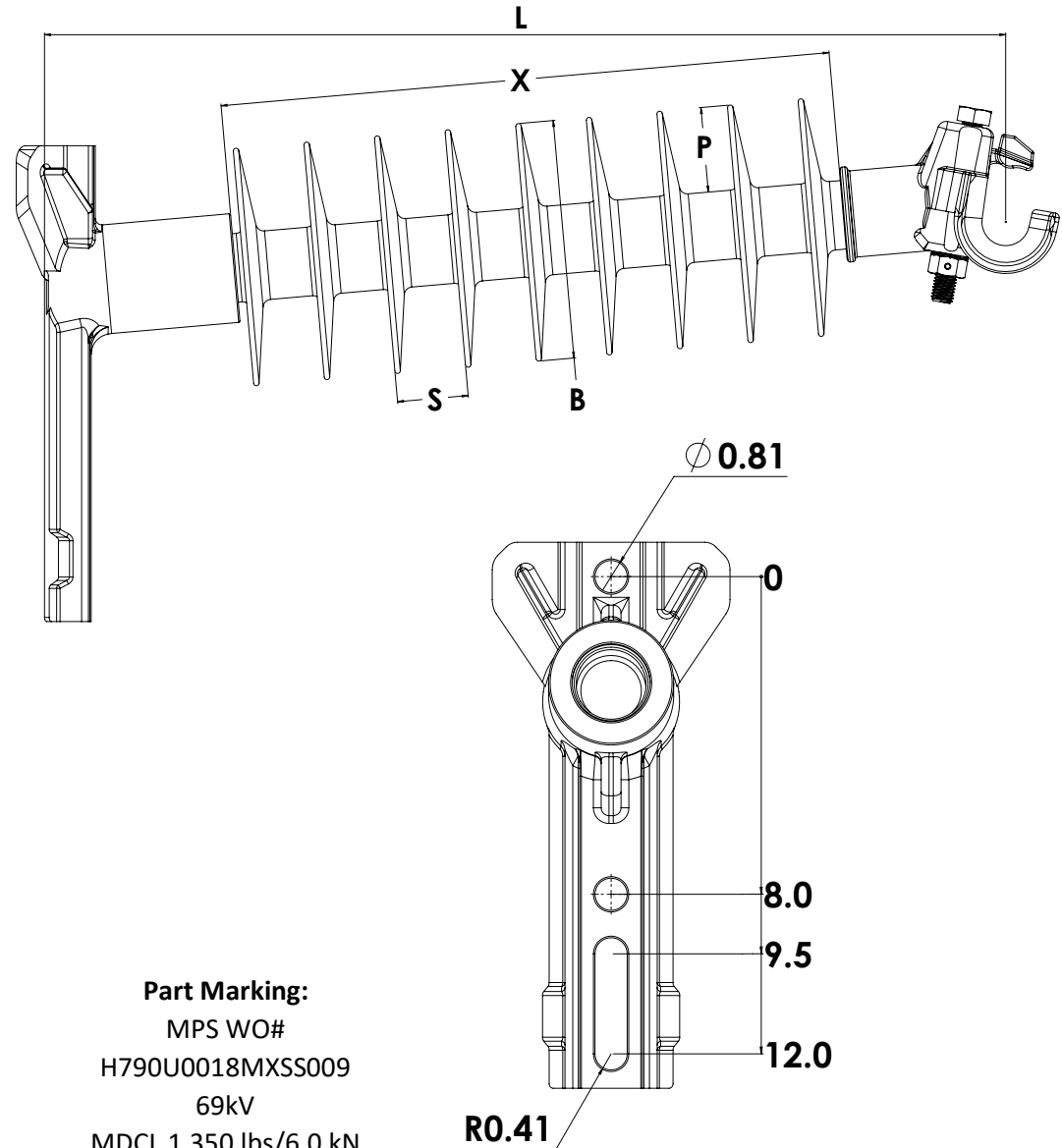
**Electricals Values**

60 Hz dry Flashover: 232 kV Min. Withstand 198 kV  
 60 Hz Wet Flashover: 185 kV Min. Withstand 145 kV  
 Positive CIFO: 358 kV Min. Withstand 319 kV  
 Negative CIFO: 411 kV Min. Withstand 352 kV

**Mechanical Values**

Max. Design Cant. Load (MDCL): 1,350 lbs 6.0 kN  
 Specified Cant. Load (SCL): 2,800 lbs 12.5 kN  
 Specified Tensile Load (STL): 5,000 lbs 22.2 kN

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**Part Marking:**  
 MPS WO#  
 H790U0018MXSS009  
 69kV  
 MDCL 1,350 lbs/6.0 kN

Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance

**R0.41**

Insulator assembly complies with ANSI C.29.18 and CSA C411.6 Standards