

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

## Braced Post Insulator Assembly

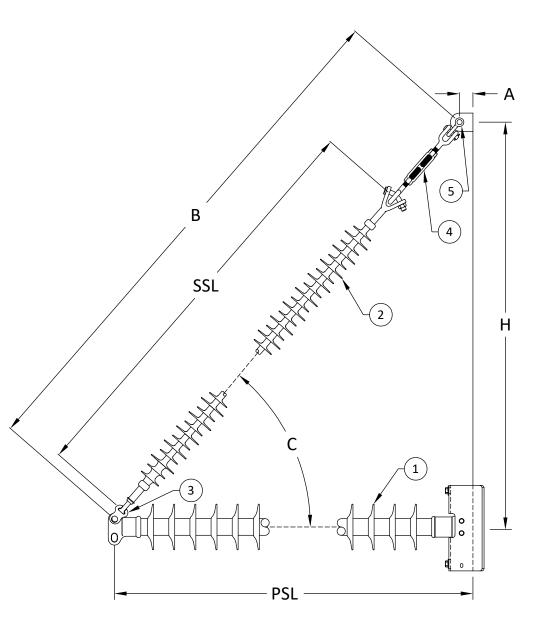
## B2911069T12061AX

1) H2 91 10 058 AX SS 022	[1]
2) S1 40 80 054 MX AL 035	[1]
3) Socket/Y-Clevis (SYC-56)	[1]
4) Turnbuckle (G-227-NBC-3/4x6C)	[1]
5) Shackle (ASH-55-BC)	[1]

## ASSEMBLY DIMENSIONAL VALUES

Post Section Length (PSL)	69.1 in	1,755 mm		
Suspension Section Length (SSL)	66.0 in	1,676 mm		
Height of Assembly (H)	61.0 in	1,549 mm		
Length of Brace (B)	89.9 in	2,283 mm		
Upper Pole Connection Offset (A)*	2.0 in	51 mm		
Angle Between Insulators (C)		41 Degrees		
Dry Arc Distance	56.7 in	1,440 mm		
Leakage Distance	157.0 in	3,988 mm		
*This connection bracket to be supplied by customer				
ASSEMBLY ELECTRICAL VALUES*				
60 Hz Dry F.O. (Min. Withstand)	532 kV	(499) kV		
60 Hz Wet F.O. (Min. Withstand)	491 kV	(391) kV		
CIFO+ (Min. Withstand)	926 kV	(821) kV		
CIFO- (Min. Withstand)	970 kV	(864) kV		
*Values shown are based on minimum electicals for the assembly				
ASSEMBLY MECHANICAL VALUES				
Maximum Working Vertical Load	8,312 lbs	37.0 kN		

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MPS Catalog Number:

Date:

\_ End Fittings

Tower End Fitting:

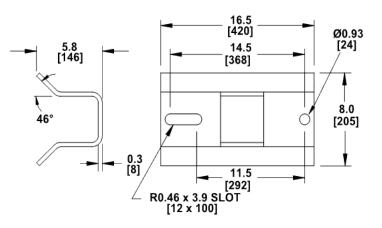
Line End Fitting:

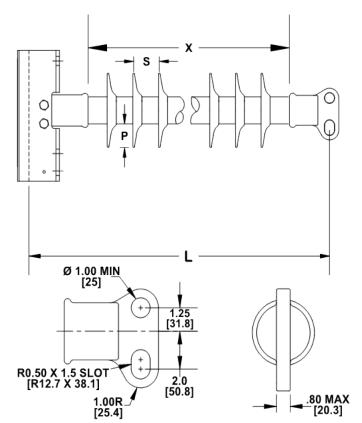
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Gain / 0 deg / Steel Anchor / Ductile Iron 2 HL Drop Tongue / Galv. Ductile Iron

Corona Ring (Tower): Corona Ring (Line): Corona Rings are recommended for applications of 230 kV Mounting Angle: Number of Sheds:	and above		None None
Corona Rings are recommended for applications of 230 kV Mounting Angle:	and above		None
Mounting Angle:	and above	0	
		0	
Number of Sheds:			deg
Number of Sneus.		22	
Rod Diameter:		2.5	in
Weight Estimate: 78.7	lbs	36	kg
Dimensional Values	<u> </u>		
Section Length (L): 69.1	in	1,755	mm
Rubber Length (X): 58	in	1,473	mm
Shed spacing (S): 2.5	in	64	mm
Shed Projection (P): 2.4	in	61	mm
Dry Arc Distance: 60.9	in	1,547	mm
Leakage Distance: 157	in	3,988	mm
Electricals Values			
60 Hz dry Flashover (Min. Withstand): 568	kV	533	kV
60 Hz Wet Flashover (Min. Withstand): 523	kV	418	kV
CIFO Positive (Min. Withstand): 992	kV	878	kV
CIFO Negative (Min. Withstand): 1032	kV	923	kV
Mechanical Values			
Max. Design Cant. Load (MDCL): 1,287	lbs	5.7	kN
Specified Cant. Load (SCL): 2,574	lbs	11.4	kN
Specified Tensile Load (STL): 15,000	lbs	66.7	kN





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Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance.

Silicone rubber sheath and sheds complies with applicable ANSI and IEC standards.

Prepared By: Stephen Lucci



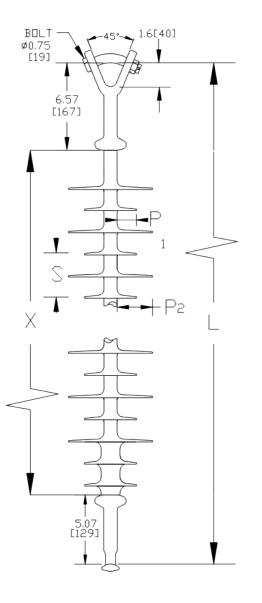
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S1 40 80 054 MX AL 035 Date: 03/28/2022

End Fitting	S			
Tower End Fitting:	Y-Clevis	Y-Clevis / Forged Steel		
Line End Fitting:	Bal	l / Forged Steel		
-		/ (ANSI 52-5)		
Material				
Corona Ring (Line):		None		
Corona Rings are recommended for app	lications of 230 kV and abov	'e		
Number of Sheds:	17 large	18 standard		
Rod Diameter:		16 mm		
Weight Estimate:	11.6 lbs	5 kg		
Dimensional Va	alues			
Section Length (L):	66 in	1,676 mm		
Rubber Length (X):	54 in	1,372 mm		
Standard Shed Height (P1):	1.5 in	38 mm		
Large Shed Height (P2):	2 in	51 mm		
Projection Ration (S/P):	-	1.5		
Shed Spacing (S):	3 in	76 mm		
Dry Arc Distance:	56.7 in	1,440 mm		
Leakage Distance:	158.4 in	4,023 mm		
Electricals Va	lues			
60 Hz dry Flashover (Min. Withstand):	554 kV	510 kV		
60 Hz Wet Flashover (Min. Withstand):	491 kV	427 kV		
CIFO Positive (Min. Withstand):	942 kV	824 kV		
CIFO Negative (Min. Withstand):	994 kV	875 kV		
Mechanical Va	lues			
Specified Mech. Load (SML):	25,000 lbs	111.2 kN		
Routine Test Load (RTL):	12,500 lbs	55.6 kN		



Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance.

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