



INSULIGN® POLYMER INSULATOR LINE POST

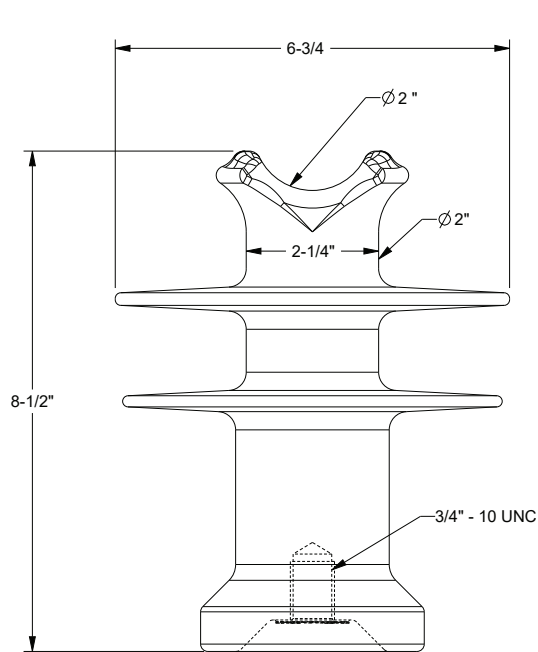
The **INSULIGN Polymer Line Post Insulators** are a direct replacement for high-voltage porcelain or composite insulators. They are designed to meet the dimensional, electrical, and mechanical requirements as defined in ANSI C29.18, Classes 51-1C, 51-1F, 51-2C, 51-2F, and 51-4F.

By using ANSI head and neck dimensional standards, PLP formed wire ties (for bare or covered conductors) will install easily and provide superior holding and electrical performance. Consult PLP for the suitability of other formed wire tie brands with these insulators.

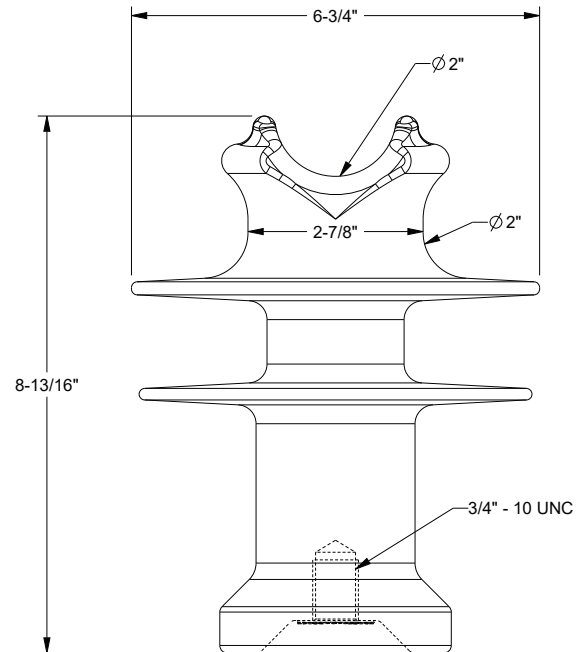
FEATURES AND BENEFITS

- ANSI C29.7 and C29.18 compliant
- Lightweight design – less than half the weight of porcelain
- Superior moisture and contamination shedding compared to porcelain
- UV-stabilized material
- ANSI-compliant head dimensions
- Matched dielectric properties with covered conductor
- High impact resistance
- Manufactured from a proprietary high-density polyethylene-based compound
- Tie top designs are ideal for use with all PLP ties
- Utilizes a lightweight aluminum base

SPECIFICATIONS



Catalog Number:
IP-51-1C



Catalog Number:
IP-51-1F

INSULIGN Polymer Line Post Insulators

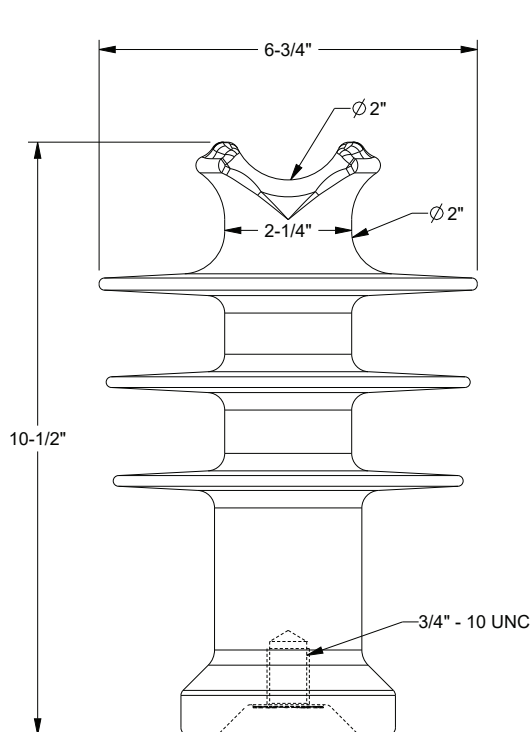
Insulator Data	RUS 12.5/7.2	ANSI C29.18 51-1C	Catalog Number IP-51-1C	ANSI C29.18 51-1F	Catalog Number IP-51-1F
Leakage Distance (in)	10	10	14.2	10	14.1
Dry Arc Distance (in)		5.2	8.5	5.2	8.3
Flashover 60 Hz Dry (kV)	70	55	93	55	92
Flashover 60 Hz Wet (kV)	50	30	65 ³	30	67 ³
Impulse Flashover Positive (kV)		95	145	95	141
Impulse Flashover Negative (kV)	Not Defined	Not Defined	205	Not Defined	212
Radio Influence Voltage (RIV) (Microvolts)			4μV		4μV
Specified Cantilever Load (SCL)	Not Defined	2400	2800	2400	2800
Maximum Design Cantilever Load (MDCL) (lb)	750 ^{1, 2}	1235 ^{1, 2}	1400	1235 ^{1, 2}	1400 ^{1, 2}
Specified Tensile Load (STL)	Not Defined	2000	3000	2000	3000
Maximum Conductor Temperature (°C)	Not Defined	Not Defined	120	Not Defined	Not Defined

¹ Per ANSI C29.7 Porcelain Insulators are proof tested at a minimum of 40% of the Rated Cantilever Load (RCL)

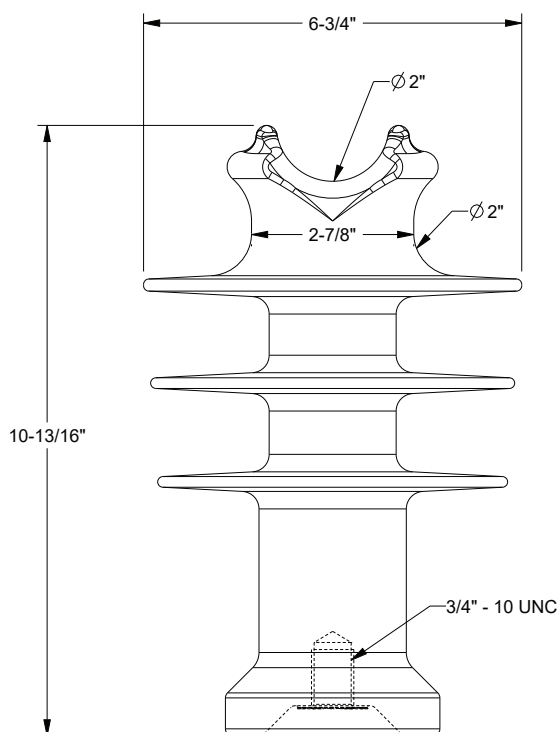
² Maximum Design Cantilever Load (MDCL) is defined by the manufacturer

³ Minimum wet flashover value is defined as 90% of rated value listed in the specification

SPECIFICATIONS



Catalog Number:
IP-51-2C



Catalog Number:
IP-51-2F

INSULIGN Polymer Line Post Insulators

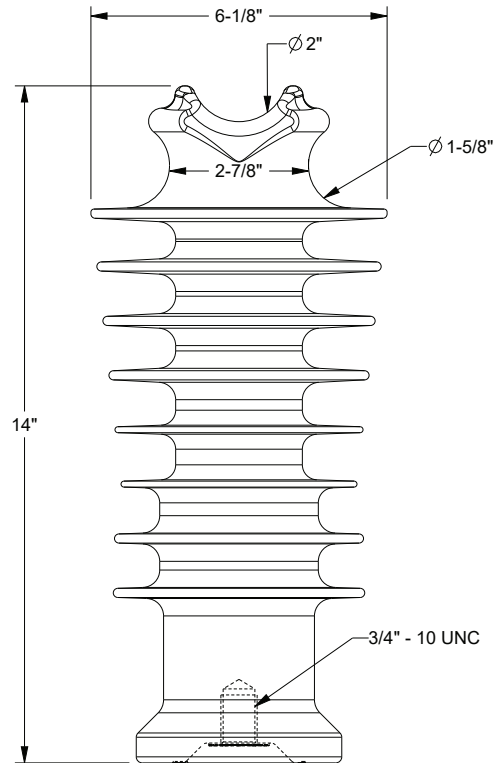
Insulator Data	RUS 12.5/7.2	ANSI C29.18 51-2C	Catalog Number IP-51-2C	ANSI C29.18 51-2F	Catalog Number IP-51-2F
Leakage Distance (in)	15	14	19.9	14	19.6
Dry Arc Distance (in)		6.5	10.6	6.5	10.3
Flashover 60 Hz Dry (kV)	95	70	114	70	110
Flashover 60 Hz Wet (kV)	65	50	83 ³	50	78 ³
Impulse Flashover Positive (kV)		120	172	120	168
Impulse Flashover Negative (kV)	Not Defined	Not Defined	263	Not Defined	283
Radio Influence Voltage (RIV) (Microvolts)			4μV		4μV
Specified Cantilever Load (SCL) (lb)	1875	2400	2800	2400	2800
Maximum Design Cantilever Load (MDCL) (lb)	750 ^{1, 2}	1235 ^{1, 2}	1400	1235 ^{1, 2}	1400 ^{1, 2}
Specified Tensile Load (STL)	Not Defined	2000	3000	2000	3000
Maximum Conductor Temperature (°C)	Not Defined	Not Defined	120	Not Defined	120

¹ Per ANSI C29.7 Porcelain Insulators are proof tested at a minimum of 40% of the Rated Cantilever Load (RCL)

² Maximum Design Cantilever Load (MDCL) is defined by the manufacturer

³ Minimum wet flashover value is defined as 90% of rated value listed in the specification

SPECIFICATIONS



Catalog Number:
IP-51-4F

INSULIGN Polymer Line Post Insulators

Insulator Data	ANSI C29.7 57.3	ANSI C29.18 51-4F	Catalog Number IP-51-4F
Leakage Distance (in)	29	29	30
Dry Arc Distance (in)	12.25	12.25	13
Flashover 60 Hz Dry (kV)	125	125	125
Flashover 60 Hz Wet (kV)	95	95	91 ³
Impulse Flashover-Positive (kV)	200	200	206
Impulse Flashover-Negative (kV)	Not Defined	Not Defined	-349
Radio Influence Voltage (RIV) (Microvolts)	<200 µV@ 30 kV		4.4
Specified Cantilever Load (SCL) (lb)	2800	2240	2400
Maximum Design Cantilever Load (MDCL) (lb)	1120 ^{1,2}		1250 ^{1,2}
Specified Tensile Load (STL) (lb)	Not Defined	2000	> 3000
Maximum Conductor Temp (°C)	Not Defined	Not Defined	120

¹ Per ANSI C29.7 Porcelain Insulators are proof tested at a minimum of 40% of the Rated Cantilever Load (RCL)

² Maximum Design Cantilever Load (MDCL) is defined by the manufacturer

³ Minimum wet flashover value is defined as 90% of rated value listed in the specification



Catalog Number:
IP-51-1C



Catalog Number
IP-51-1F



Catalog Number:
IP-51-2C



Catalog Number:
IP-51-2F



Catalog Number:
IP-51-4F

ORDERING INFORMATION

INSULIGN Polymer Line Post Insulators

Catalog Number	ANSI C29.18	Typical 3-Phase Application	Neck Designation	Units per Carton	Carton Quantity
		kV			lb
IP-51-1C	51-1C	15	C	12	33
IP-51-1F	51-1F		F		
IP-51-2C	51-2C	25	C	12	43
IP-51-2F	51-2F		F		
IP-51-4F	51-4F	25/35	F	6	34