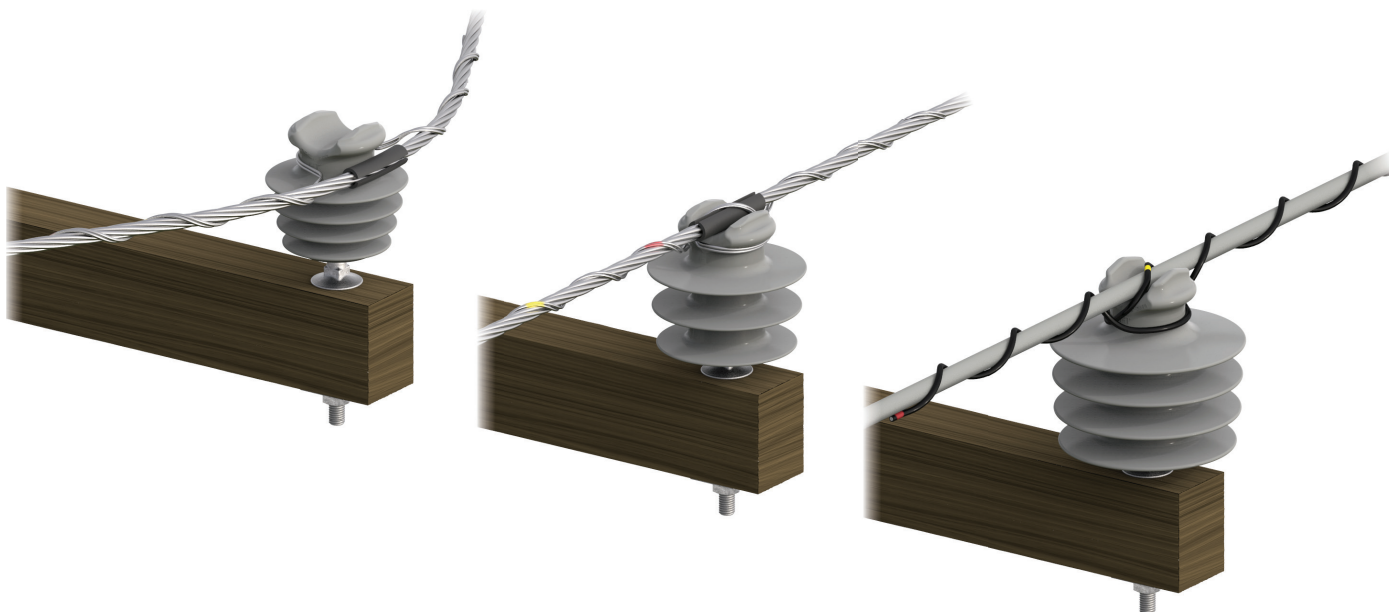




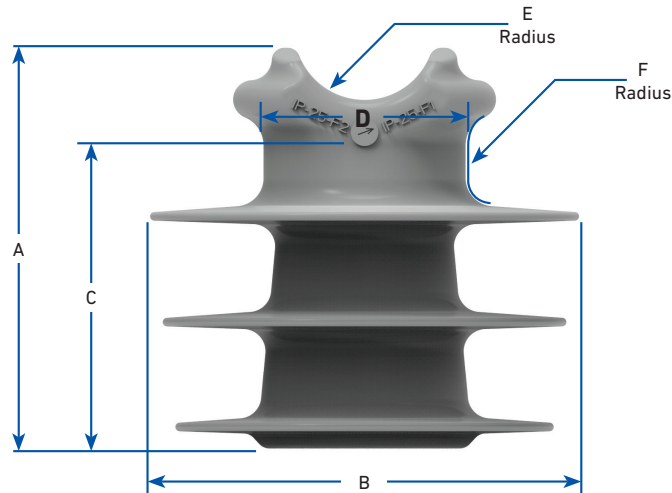
INSULIGN® POLYMER INSULATOR HIGH TEMPERATURE (HT) TIE TOP PIN TYPE

The **INSULIGN High Temperature (HT) Tie Top Pin Type Polymer Insulator**, constructed of a proprietary High Temperature HDPE formula, are designed for use in systems that have continuous operating temperatures up to 150°C. Like PLP's standard INSULIGN Polymer Insulators, the HT versions meet the dimensional, electrical, and mechanical requirements as defined in ANSI C29.5 and C29.6 standards for Classes 55-3, 55-4, 55-5, 55-6, 55-7, and 56-1. These insulators also meet the new ANSI C29.15 standard for polyethylene tie top pin type insulators.

FEATURES AND BENEFITS

- Continuous operation up to 150 degrees C
- ANSI-compliant head dimensions
- Ideal suited for factory formed wire ties
- Closely match the dielectric properties of jacketed covered conductor
- Superior moisture and contamination shedding properties
- UV-stabilized for long-term service
- High-impact resistance – designed to reduce potential breakage due to vandal/gunshot damage, particularly at cold temperatures
- Lightweight design reduces shipping costs and lineman handling requirements
- 1" or 1-3/8" pins
- Dramatically reduces abrasion damage to conductor
- 100% recyclable

SPECIFICATIONS



INSULIGN Polymer Insulator - High Temperature Tie Top Pin Type

Nominal Insulator Dimension										
Catalog Number	ANSI Class	Dimension								Number of Skirts
		in								
		A	B	C	D	E (Radius)	F (Radius)	Top Groove, Maximum Conductor OD	Side Groove, Maximum Conductor OD	
IP-15HT-C	55-3	5.00	5.50	3.75	2.25	0.75	0.65	1.50	1.30	3
IP-15HT-F	55-4	5.25	5.50	3.75	2.88	1.00	0.65	1.88	1.30	4
IP-25HT-F1/2	55-5	5.70	6.10	4.30	2.88	1.00	0.65	2.00	1.30	3
IP-25HT-J1/2	56-1	6.70	7.00	4.90	3.50	1.00	1.00	2.00	2.00	3
IP-35HT-F1/2	55-6/55-7	7.50	7.50	5.50	2.88	1.00	0.75	2.00	1.50	4
IP-35HT-J1/2	55-6/55-7	7.50	7.50	5.50	3.50	1.00	1.00	2.00	2.00	4

Maximum Conductor Outer Diameter (in) with Factory Formed Ties

PLP Tie	Insulator Catalog Number					
	IP-15HT-C	IP-15HT-F	IP-25HT-F1/2	IP-25HT-J1/2	IP-35HT-F1/2	IP-35HT-J1/2
Distribution Tie	1.25	1.75	1.75	1.75	1.75	1.75
WRAPLOCK® Tie	1.25	1.75	1.75	1.75	1.75	1.75
EZ-WRAP™ Twin Tie	1.25	1.75	1.75	1.75	1.75	1.75
Double Support Tie	1.25	1.75	1.75	1.75	1.75	1.75
Side Tie	1.05	1.05	1.38	1.75	1.38	1.75
EZ-WRAP™ Side Tie	1.05	1.05	1.38	1.75	1.38	1.75
Double Side Ties	1.05	1.05	1.38	1.75	1.38	1.75
Coated Top Tie	1.50	2.00	2.00	2.00	2.00	2.00
Coated Side Tie	1.30	1.30	1.63	2.00	1.63	2.00

NOTE: *For most Formed Ties it is necessary to reduce Max Conductor OD that can fit into the insulator groove because allowance needs to be made for tie tube thickness and /or wires of the tie may take up space in the groove.

A factory formed tie may not be available for the full conductor diameter capability of the insulator. See the appropriate catalog page for tie capabilities.



ORDERING INFORMATION

INSULIGN Polymer Insulator – High Temperature Tie Top Pin Type

Catalog Number	ANSI Class ¹	Description	Mounting Pin	Insulator Weight	Units per Carton	Weight per Carton
			in	lbs		lbs
15 kV						
IP-15HT-C	55-3	C-Neck Tie Top	1	1.00	18	20
IP-15HT-F	55-4	F-Neck Tie Top		1.30	18	25
25 kV						
IP-25HT-F1	55-5	F-Neck Tie Top	1	1.45	18	28
IP-25HT-F2	55-5 ²		1-3/8	1.40	18	27
IP-25HT-J1	56-1 ²	J-Neck Tie Top	1	2.00	18	38
IP-25HT-J2	56-1		1-3/8	2.00	18	38
35 kV						
IP-35HT-F1	55-1 ²	F-Neck Tie Top	1	3.00	12	38
IP-35HT-F2	55-7 ²		1-3/8	3.00	12	38
IP-35HT-J1	55-6	J-Neck Tie Top	1	2.50	12	32
IP-35HT-J2	55-7		1-3/8	2.50	12	32

¹ Nominal ANSI C29.5 or C29.6 Class designation - These ANSI specifications are for Wet Processed Porcelain

² Meets the electrical requirements of the ANSI Class designation but a physical characteristic differs from the specification.



Catalog Number:
IP-15HT-C



Catalog Number:
IP-25HT-F1 or IP-25HT-F2



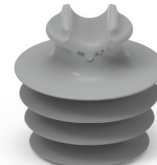
Catalog Number:
IP-35HT-F1 or IP-35HT-F2



Catalog Number:
IP-15HT-F



Catalog Number:
IP-25HT-J1 or IP-25HT-J2



Catalog Number:
IP-35HT-J1 or IP-35HT-J2

ADDITIONAL RESOURCES

For additional information regarding the use and installation of INSULIGN Polymer Insulators - High Temperature Tie Top Pin Type, use the QR codes listed below.



INSULIGN Polymer Insulator - Tie Top Pin Type
Installation Instructions



INSULIGN Polymer Insulator - Tie Top Pin Type
Website

TESTING RESULTS

INSULIGN Polymer Insulator - High Temperature Tie Top Pin Type

Test Results Based on ANSI C29 Standard																
Insulator Data	15 kv Applications				25 kv Applications						35 kv Applications					
	PLP	ANSI C29.5 55-3	PLP	ANSI C29.5 55-4	PLP	ANSI C29.5 55-5	PLP	ANSI C29.5 56-1	PLP	ANSI C29.5 56-1	PLP	ANSI C29.5 55-6	PLP	ANSI C29.5 55-7	PLP	ANSI C29.5 55-7
Catalog Number and Application	IP-15HT-C	N/A	IP-15HT-F	N/A	IP-25HT-F1	IP-25HT-F2	N/A	IP-25HT-J1	IP-25HT-J2	N/A	IP-35HT-F1	IP-35HT-J1	N/A	IP-35HT-F2	IP-35HT-J2	N/A
Nominal ANSI Class	55-3	55-3	55-4	55-4	55-5	55-5	55-5	56-1	56-1	56-1	55-6	55-6	55-6	55-7	55-7	55-7
Neck Size/Style	C	C	F	F	F	F	F	J	J	J	F	J	F	F	J	J
Typical Operating Voltage Application kV (L-L)	15	15	15	15	25	25	25	25	25	25	35	35	35	35	35	35
Leakage Distance (in)	11.8	7	13.8	9	15.2	15	12	17.4	17.2	13	22.8	21.6	15	22.7	21.4	15
Dry Arcing Distance (in)	6.4	4.5	6.2	5	7.5	7.4	8.7	8.6	8.5	9.5	10	9.6	8	9.8	9.3	8
Pin Hole Diameter (in)	1	1	1	1	1	1.375	1	1	1.375	1.375	1	1	1	1.375	1.375	1.375
Suggested Minimum Pin Length (in)	6	5	6	5	6	6	6	6	6	6	7.5	7.5	7.5	7.5	7.5	7.5
60Hz Dry Flashover (kV)	77	55	93	65	89*	89	85	107*	107	95	126*	113*	100	126	113	100
60Hz Wet Flashover (kV)	45	30	50	35	55*	55	45	71*	71	60	82*	75*	50	82	75	50
Positive Impulse Flashover (kV)	124	90	114	105	142*	142	140	152*	152	150	175*	157*	150	175	157	150
Negative Impulse Flashover (kV)	-160	-110	-114	-130	-223*	-223	-170	-222*	-222	-190	-238*	-238*	-170	-238	-254	-170
Low Frequency Puncture (kV)	208	90	160	95	218	201	115	179	184	130	223	223	135	235	194	135
RIV @ 1 MHZ																
10 kV to grd, μ V	<5	<50 μ V @ 10kV	<5	<50 μ V @ 10kV	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15 kV to grd, μ V	N/A	N/A	N/A	N/A	<2*	<2	<100 μ V @ 15kV	<29*	<29	<100 μ V @ 15kV	N/A	N/A	N/A	N/A	N/A	N/A
22 kV to grd, μ V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<39*	<26*	<100 μ V @ 22kV	<39	<26	<100 μ V @ 22kV
Cantilever Strength (lbs)	3,000	2,500	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
Approximate Weight (lbs)	0.9	N/A	1.3	N/A	1.3	1.3	N/A	2	2	N/A	2.8	2.5	N/A	2.8	2.5	N/A
Maximum Operating Temperature (°C)	150	N/A	150	N/A	150	150	N/A	150	150	N/A	150	150	N/A	150	150	N/A

*Electrical test data extrapolated from similar design of Polymer Insulator Pin Hole 1-3/8"