

Polyethylene Pin Type Insulators – Tie-Top

Description:

Hendrix Tie-Top insulators are molded of proprietary, gray, track resistant, high density polyethylene. They are ideal for use with covered conductors because the low dielectric constant matches that of Hendrix and other polyethylene conductor insulating compounds. In addition, Hendrix Tie-Top insulators may be used with bare conductors. They are designed with standard ANSI neck sizes and will fit on standard 1" or 1 3/8" pins. Insulators are available with ratings of 15kV, 25kV or 35kV.



HPI-15



HPI-25



HPI-35

Benefits:

- Electrically compatible with covered conductors - no stripping is required
- Resistant to impact damage, breakage and vandalism
- Excellent weather washing characteristics
- Interchangeable with porcelain insulators
- Excellent weatherability proven by 40+ years of field experience
- Designed for use with hand wrapped ties or preshaped ties
- Light weight for easy handling
- Excellent for contaminated environments
- Hendrix Tie Top Insulators are RUS Accepted

Application:

Hendrix Tie-Top insulators are recommended for use on spacer cable construction at angles and for open wire construction with either covered conductors or bare conductors. Using polyethylene insulators avoids the problem of increased corona and the resulting erosion of covered conductors that can occur with porcelain insulators. Hendrix polyethylene insulators are especially well suited to areas with a history of vandalism. Ballistics tests have shown that even with damage from rifle or shotgun fire, the insulators were still able to operate. Hendrix polyethylene insulators are also excellent for contaminated environments due to their long leakage distance and washing characteristics.

When using Hendrix Tie-Top insulators with covered conductors, a covered tie wire is required to prevent erosion of the conductor covering. Hendrix thermoplastic rubber covered tie wire is available for this purpose. When using Hendrix Tie-Top insulators with bare conductors, a bare tie wire should be used.



HPI insulator with covered conductor
and covered tie wire



HPI insulator with bare conductor
and bare tie wire

continued

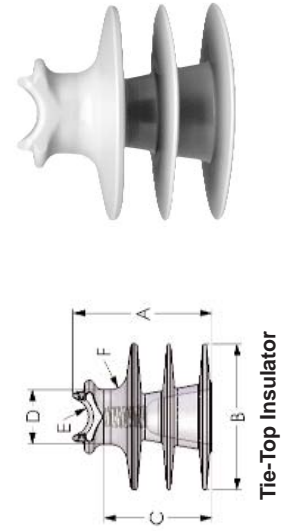
Polyethylene Pin Type Insulators

Electrical, Mechanical & Physical Data

OVERHEAD PRODUCTS



Characteristic	HPI-15	HPI-15F	HPI-25	HPI-25-02	HPI-25J	HPI-25J-02	HPI-35**	HPI-35-02**	HPI-35J**	HPI-35J-02**
Neck Style	C	F	F	F	J	J	F	F	J	J
Typical Application, kV	15	15	25	25	25	25	35	35	35	35
ANSI Class	55-3	55-4	55-5	55-5	56-1	56-1	55-6*	55-6*	55-6	55-6
Leakage Distance, inches	13.6	12.5	14.6	14.5	14.0	13.8	21.1	21.0	20.8	20.7
Dry Arcing Distance, inches	7	6.7	8.3	8.3	8.1	8.1	10.2	10.2	10.0	10.0
Pin Hole Diameter, inches*	1	1	1 ³ / ₈	1 ³ / ₈	1	1 ³ / ₈	1	1 ³ / ₈	1	1 ³ / ₈
Minimum Pin Length, inches	6	6	6	6	6	6	7***	7***	7***	7***
60Hz Dry Flashover, kV	84	80	87	87	95	95	106	106	91	91
60Hz Wet Flashover, kV	43	46	51	51	57	57	70	70	63	63
Positive Impulse Flashover, kV	123	122	144	144	143	143	168	168	147	147
Negative Impulse Flashover, kV	207	202	179	179	190	190	225	225	219	219
Low Frequency Puncture, kV	210	215	225	220	220	215	235	230	230	225
RIV @ 1MHz	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
15 kV to grd, μV	-	-	<10	<10	<10	<10	<10	<10	<10	<10
22 kV to grd, μV	-	-	-	-	-	-	<10	<10	<10	<10
Cantilever Strength, lbs.	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Dimensions, inches	A	5 ¹ / ₄	5 ¹ / ₂	5 ¹ / ₂	5 ⁷ / ₈	5 ⁷ / ₈	7 ¹ / ₈	7 ¹ / ₈	7 ¹ / ₂	7 ¹ / ₂
	B	5 ¹ / ₂	7 ¹ / ₂	7 ¹ / ₂	7 ¹ / ₂	7 ¹ / ₂	7 ¹ / ₂	7 ¹ / ₂	7 ¹ / ₂	7 ¹ / ₂
	C	3 ⁷ / ₈	3 ⁷ / ₈	4	4	4	5 ¹ / ₂	5 ¹ / ₂	5 ¹ / ₂	5 ¹ / ₂
	D	2 ¹ / ₄	2 ⁷ / ₈	2 ⁷ / ₈	2 ⁷ / ₈	3 ¹ / ₂	2 ⁷ / ₈	2 ⁷ / ₈	3 ¹ / ₂	3 ¹ / ₂
	E	3 ³ / ₄	1	1	1	1	1	1	1	1
	F	3 ³ / ₄	3 ³ / ₄	7 ¹ / ₈	7 ¹ / ₈	7 ¹ / ₈	7 ¹ / ₈	7 ¹ / ₈	7 ¹ / ₈	7 ¹ / ₈
Max. Conductor, inches	1.38	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
Weight, lbs.	1.1	1.2	2.1	2.1	2.3	2.3	2.7	2.7	2.9	2.9
Maximum continuous conductor operating temp., C°	120	120	120	120	120	120	120	120	120	120



When ordering Vise-Top insulators, specify the suffix "P" for covered conductors and bare copper conductors or "M" for bare aluminum conductors.
 Different pin hole diameters and thread configurations to meet international standards are available upon request.
 *Meets all requirements of 55-6 except J neck.
 **Review design performance data before using on bare wire systems.
 ***ANSI C29.5 requires a minimum pin height of 7 1/2.
 ****Cantilever strength refers to side clamp loading.