

Molded Products Catalog



Hendrix[®]

MARMON
Utility
A Berkshire Hathaway Company

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[®]

MOLDED PRODUCTS

Hendrix Molded Products Division began with the development of HPI Tie Top Insulators in the mid-1960's. The first production units were shipped in 1966, giving Hendrix well over 50 years of field experience. In the mid-1970's, Hendrix developed and produced the first Vise Top Insulators, where a conductor clamping mechanism was designed into the top of the insulator, and the first production units were shipped in 1976. In 2012, Hendrix introduced its Line Post Insulator product line to the market and shipped its first order.

All Hendrix HPI Insulators are manufactured from a proprietary blend of gray, track-resistant, high-density polyethylene. Tie Top, Vise Top, and Line Post Insulators are tested in conformance with the ANSI C29 series of specifications and exhibit superior electrical and mechanical characteristics compared to wet process porcelain. They have greater leakage distance, higher flashover and impulse values, are lightweight, vandal resistant, won't chip, crack, or break, are a green recyclable product, and are made in the USA.





GUARANTEED FOR LIFE PROGRAM

Lighter, Stronger, Better. And Guaranteed for Life.

Upgrade to time-tested Hendrix HPI Insulators

Hendrix introduced the Tie-Top insulator in the 1960s, and we've been innovating ever since. Our HPI insulators are made from a proprietary blend of track-resistant, high-density polyethylene. They have greater leakage distance, higher flashover and impulse values, are lightweight, vandal-resistant, and they won't chip, crack, or break. Plus, our HPI insulators are recyclable and made 100% right here in the USA.

The Hendrix Guaranteed for Life Program

For all Hendrix insulator's including:

- Tie-Top insulators
- Vise-Top insulators
- Line Post Insulators

NEW:

- Station Post Insulators
- Trunnion Line Post Insulators

The Guaranteed for Life Program covers previously installed Hendrix insulators.

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Tie-Top Polyethylene Pin Insulators



Description:

Hendrix Tie Top Insulators are molded from a proprietary blend of gray, track-resistant, high-density polyethylene.

They are ideal for use with all types of construction using either bare wire or covered conductors. When using covered conductors, it is recommended that HPI Insulators always be used in order to match the dielectric properties of the insulating materials. HPI Tie Top Insulators conform with the electrical and mechanical requirements of ANSI C29.5 and C29.6. They are designed with standard ANSI neck and thread sizes and are available in nominal voltage ratings of 15kV, 25kV, and 35kV.

Benefits:

They are especially well suited for areas of vandalism. Ballistics tests have shown that even with damage from a rifle or shotgun, the insulators are still able to perform.

- Exceeds ANSI electrical and mechanical requirements
- Resistant to impact damage, breakage, and vandalism
- Field installed since 1966
- Designed for use with all Tie Products
- Lightweight for ease of handling
- RUS approved (*)
- Environmentally friendly - All HPI insulators are made of 100 percent recyclable plastic
- Guaranteed for life
- Made in the USA

Part Number	Description	Voltage	ANSI Class	Neck Size	Pin Size (in)
HPI-55-3*	Tie-Top Pin Insulator	15kV	55-3	C	1
HPI-55-4*	Tie-Top Pin Insulator	15kV	55-4	F	1
HPI-55-5-01	Tie-Top Pin Insulator	25kV	55-5	F	1
HPI-55-5-02	Tie-Top Pin Insulator	25kV	55-5	F	1 3/8 ⁽¹⁾
HPI-25-01	Tie-Top Pin Insulator	25kV	55-5	F	1
HPI-25-02	Tie-Top Pin Insulator	25kV	55-5	F	1 3/8 ⁽¹⁾
HPI-25J-01	Tie-Top Pin Insulator	25kV	56-1	J	1 ⁽¹⁾
HPI-25J-02*	Tie-Top Pin Insulator	25kV	56-1	J	1 3/8 ⁽¹⁾
HPI-35-01	Tie-Top Pin Insulator	35kV	55-6	F ⁽¹⁾	1 ⁽¹⁾
HPI-35-02	Tie-Top Pin Insulator	35kV	55-6	F ⁽¹⁾	1 3/8
HPI-35J-01	Tie-Top Pin Insulator	35kV	55-6	J	1 ⁽¹⁾
HPI-35J-02	Tie-Top Pin Insulator	35kV	55-7	J	1 3/8 ⁽¹⁾

All insulators available in White, High Temperature and Flame Retardant. See Specialty Insulators for more detail.

⁽¹⁾ Exception to ANSI Classification

Installation Guide



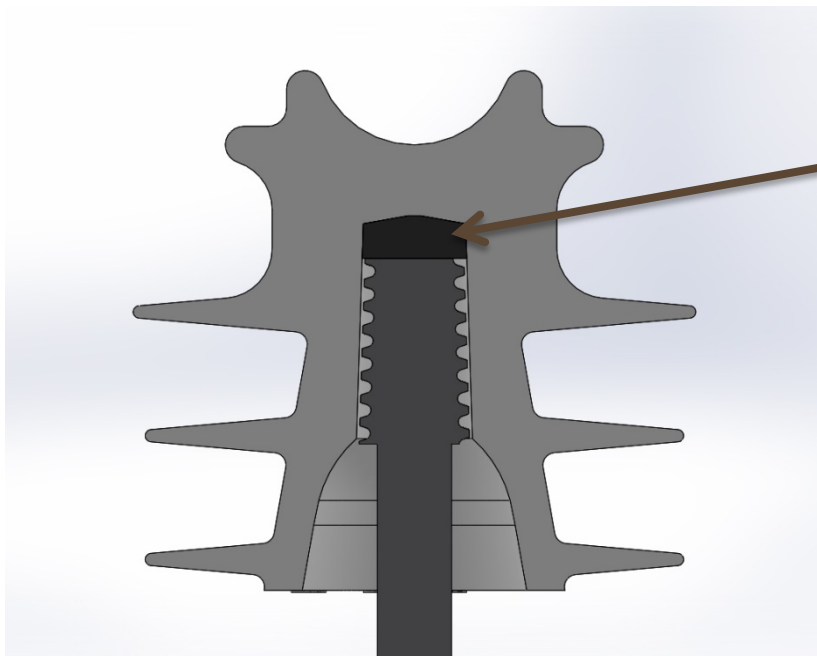
Important Notes to Prevent Damage:

- Install by hand only-DO NOT USE TOOLS
- DO NOT "Bottom Out" Threads-See Step 1



Step # 1

Thread on insulator, stopping when you feel the threads engage the internal mastic (see below)



Mastic - eliminates air space and potential RIV. If Insulator is overtightened then the mastic can cut into the insulator due to pressure.

Step # 2

If required to align the top saddle with the conductor, continue threading the insulator up to an additional 1/2 turn.

NOTE: The insulator is not designed to be fully seated against the pin. Securing the conductor assures the insulator will remain in position.

Vise Top Polyethylene Pin Insulators



Description:

Hendrix Vise Top Insulators incorporate a clamping mechanism into the top of the insulator to provide quick and easy conductor installation without the need for additional tie products. When used with the VTST Stringing Tool, conductors can be installed without separate stringing blocks, significantly reducing installation costs. Vise Top insulators are suitable for use with all conductor sizes and types: covered, aluminum, or copper conductors.



Vise Top Insulators are molded from a proprietary blend of gray, track-resistant, high-density polyethylene. They conform with the electrical and mechanical requirements of ANSI C29.5 and C29.6. Nominal voltage ratings are 15 kV, 25 kV, and 35 kV. They are designed to fit on standard 1" or 1 3/8" pins. They are especially well suited for areas of vandalism. Ballistics tests have shown that even with damage from a rifle or shotgun, the insulators are still able to perform.

Benefits:

- Quick and easy installation using two torque bolts
- Torque bolt rings break away at a predetermined torque to provide proper clamping force
- Insulator acts as a stringing block when used with the VTST Stringing Tool
- Electrically compatible with all conductor types
- Resistant to impact damage, breakage, and vandalism
- RUS approved (*)
- Excellent weather washing characteristics
- Directly interchangeable with porcelain insulators
- Lightweight for easy handling
- Field installed since 1976
- Guaranteed for Life
- Made in the USA

Part Number	Description	Voltage	ANSI Class	Neck Size	Pin Size (in)
HPI-15VTP*	with plastic inserts for use on covered & bare aluminum or copper conductors	15kV	55-3 & 55-4	C	1
HPI-15VTM*	with metal inserts for use on bare aluminum conductors	15kV	55-3 & 55-4	C	1
HPI-15VTC*	with Composite inserts for use on all conductor types	15kV	55-3 & 55-4	C	1
HPI-25VTP-01*	with plastic inserts for use on covered & bare aluminum or copper conductors	25kV	55-5	F	1
HPI-25VTP-02*	with plastic inserts for use on covered & bare aluminum or copper conductors	25kV	56-1	F ⁽¹⁾	1 3/8 ⁽¹⁾
HPI-25VTM-01	with metal inserts for use on bare aluminum conductors	25kV	55-5	F	1
HPI-25VTM-02	with metal inserts for use on bare aluminum conductors	25kV	56-1	F ⁽¹⁾	1 3/8 ⁽¹⁾
HPI-25VTC-01	with Composite inserts for use on all conductor types	25kV	55-5	F	1
HPI-25VTC-02*	with Composite inserts for use on all conductor types	25kV	56-1	F ⁽¹⁾	1 3/8 ⁽¹⁾
HPI-35VTP-01	with plastic inserts for use on covered & bare aluminum or copper conductors	35kV	55-6	F ⁽¹⁾	1 ⁽¹⁾
HPI-35VTP-02*	with plastic inserts for use on covered & bare aluminum or copper conductors	35kV	55-7	F ⁽¹⁾	1 3/8
HPI-35VTM-01	with metal inserts for use on bare aluminum conductors	35kV	55-6	F ⁽¹⁾	1 ⁽¹⁾
HPI-35VTM-02	with metal inserts for use on bare aluminum conductors	35kV	55-7	F ⁽¹⁾	1 3/8 ⁽¹⁾
HPI-35VTC-01	with Composite inserts for use on all conductor types	35kV	55-6	F ⁽¹⁾	1 ⁽¹⁾
HPI-35VTC-02	with Composite inserts for use on all conductor types	35kV	55-7	F ⁽¹⁾	1 3/8 ⁽¹⁾

All insulators available in White, High Temperature and Flame Retardant. See Specialty Insulators for more detail.

⁽¹⁾ Exception to ANSI Classification

Vise Top Polyethylene Pin Insulators



Application

Hendrix Vise Top Insulators are recommended for use with all conductor types, bare or covered. Vise Top Insulators are excellent for contaminated areas due to their long leakage distance and excellent washing characteristics.

Vise Top Insulator Insert Styles

Option #1 has plastic clamping inserts for use with either covered or bare conductors.

Option #2 has aluminum clamping inserts for use with bare aluminum conductors.

Option #3 has composite clamping insert for maximum holding strength on all conductor types.

When ordering, specify an “M” for aluminum inserts, a “P” for plastic inserts, or a “C” for composite inserts (ex: HPI-25VTM; HPI-25VTP; HPI-35VTC).

To specify pin diameter, add the suffix -01 for 1” threads and -02 for 1 3/8” threads (ex: HPI-25VTM-02).



Vise Top with covered conductor and plastic/nylon clamping inserts

Vise Top with bare wire and aluminum or composite clamping inserts

Always install the bottom bolt first and the top bolt second, always breaking the eyes off the bolts

The Vise Top Insulator can accommodate conductors up to 1.75 inch diameter. Conductors should be mounted in the top saddle position for tangent construction and small angles. Large angles are better suited for the side/neck mounting position. Angles may be supported in the top saddle position provided the mounting pin strength is designed for the expected transverse loading. For all applications, good utility design practice should be followed, including design to National Electric Safety Code (NESC) and/or prevailing rules and codes.

Installation Guide

Step # 1- Insulator on Pin Installation

1. Remove completely top torque-bolt.
2. Start turning insulator clockwise counting every full rotation.
3. Gradual resistance will be felt as number of turns increases. Resistance will increase when the mastic is contacted at 4+ rotations. **Caution: Hand tighten only. Do not use tools.**

Step # 2- Insulator Alignment

1. Tighten an additional 1/2 to 1/4 turn and align the insulator to the conductor.
2. After completion of Step 1, to align insulator to conductor, it is recommended to loosen the mounting pin and rotate insulator-pin assembly to desired position and retighten the pin nut.
3. Best practice: Assemble Pin and Insulator before bringing to the site.

Step # 3- Torque-bolt installation

1. Place conductor in saddle.
2. Tighten bottom torque-bolt until eyelet breaks off.
3. Insert top torque-bolt and tighten until eyelet breaks off.

NOTE: With angled constructions, the cantilever load (CL) should be applied against the Vise Top side neck (3000lbs CL capability). If the conductor is to remain in the saddle, the maximum cantilever applied ranges between 1000-1200lbs depending on the mounting pin mechanical rating. The 10 degree maximum permissible pin deflection is the limiting factor to determine the line angle. The maximum cantilever depends on the pin derated value, including the design safety factor.

Vise Top Polyethylene Pin Insulators



Installation Process

Using VTST-1 Stringing Tool with Vise Top Insulator



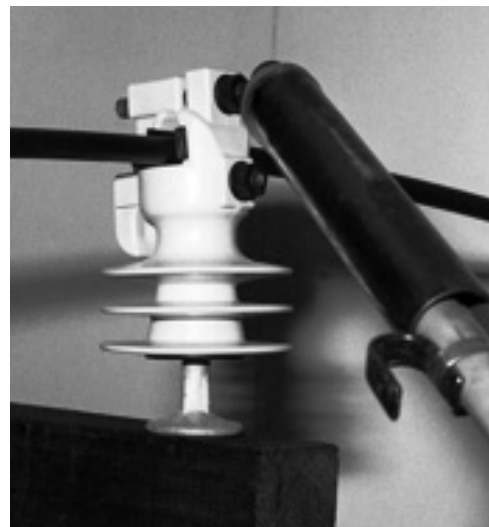
Install the Vise Top Insulator. Clamp the VTST-1 in the jaw and pull your rope in (Hint: have the large flare of the VTST-1 facing the cable reels)



String and sag the conductor directly on the insulator. Dead ends can be made up and the circuit can be energized (remember: you are in an insulator)



Loosen the bolt and slide the VTST-1 away from the insulator, either by hand or with a hot stick, until the two halves of the tool separate



Clamp the conductor in the Vise Top jaw by tightening the torque bolts, **BOTTOM BOLT FIRST — ALWAYS**, until the rings break away. This can be done by hand or hot stick

Tie Top Polyethylene Post Insulators



Description:

Hendrix Line Post Insulators are molded from a proprietary blend of track-resistant, high-density polyethylene. They are ideal for use with all types of construction using either bare wire or covered conductors. When using covered conductors, it is recommended that HPI Insulators always be used in order to match the dielectric properties of the insulating materials. They are more durable and reliable than traditional porcelain insulators. They are also lighter, safer, and easier to handle.

HPI Line Post Insulators meet the electrical and mechanical requirements of ANSI C29.7 and C29.18. They are designed with a standard ANSI "C" and "F" neck and center tap 3/4"-10 ANC thread size.

Benefits:

- Stronger than porcelain
- Designed for use with all Tie Products and conductor types
- Easy handling: lighter than porcelain and clamp-top composite designs
- HDPE prevents chips, cracks, and breaks
- Resistant to impact damage, breakage, and vandalism
- RUS approved (*)
- Guaranteed for life
- Made in the USA

Part Number	Description	Voltage	ANSI Class	Stud Size
HPI-LP-9C*	Tie-top Line Post, C neck	15kV	51-1C	3/4" -UNC 10
HPI-LP-9F*	Tie-top Line Post, F neck	15kV	51-1F	3/4" -UNC 10
HPI-LP-11C*	Tie-top Line Post, C neck	25kV	51-2C	3/4" -UNC 10
HPI-LP-11F*	Tie-top Line Post, F neck	25kV	51-2F	3/4" -UNC 10
HPI-LP-14FA*	Tie-top Line Post, F neck, Alum. Base	25/35kV	51-4F	3/4" -UNC 10
HPI-LP-14FS*	Tie-top Line Post, F neck, Steel Base	25/35kV	51-4F	3/4" -UNC 10
HPI-LP-16F*	Tie-top Line Post, F neck, Steel Base	35/46kV	51-4F	3/4" -UNC 10

Available in Flame Retardant. See Specialty Insulators for more detail.



Description:

Hendrix Clamp Top Line Post Insulators are molded from a proprietary blend of track-resistant, high-density polyethylene. They are ideal for use with bare wire conductors with a size range of .25" - 1.65" diameter. They are more durable and reliable than traditional porcelain insulators. They are also lighter, safer, and easier to handle. Made with a 1.75" fiberglass rod mechanical member. Seal with patented water migration prevention technology.

HPI Clamp Top Line Post Insulators meet the electrical and mechanical requirements of ANSI C29.7 and C29.18. They are designed with a universal clamp with a captive bolt accessible from both sides for ease of operating the clamp mechanism. Mounting the CLP insulator utilizes a center tap 3/4"-10 ANC thread size. The CLP is a direct replacement for porcelain or composite insulators.

Benefits:

- Designed with a universal clamp mechanism eliminating SKU's
- Easy handling: lighter than porcelain and trunion style clamp-top composite designs
- HDPE prevents chips, cracks, and breaks
- Resistant to impact damage, breakage, and vandalism
- RUS approved (*)
- Guaranteed for life
- Made in the USA

Part Number	Description	Weight (lbs)	Voltage	ANSI Class	Stud Size
HPI-CLP-15*	Clamp-top Line Post w/universal conductor range clamp	11.4	25kV	57-11 & 21/ 51-12 & 22	3/4" -UNC 10
HPI-CLP-17*	Clamp-top Line Post w/universal conductor range clamp	12.7	35kV	57-12 & 22/ 51-13 & 23	3/4" -UNC 10
HPI-CLP-20*	Clamp-top Line Post w/universal conductor range clamp	14.0	46kV	57-13 & 23/ 51-14 & 24	3/4" -UNC 10
HPI-CLP-25*	Clamp-top Line Post w/universal conductor range clamp	15.75	69kV	57-14 & 24/ 51-15 & 25	3/4" -UNC 10

Available in Flame Retardant. See Specialty Insulators for more detail.



Description:

Hendrix Trunnion Insulators are molded from a proprietary blend of track-resistant, high-density polyethylene. They are ideal for use with bare wire conductors. They are more durable and reliable than traditional porcelain insulators. They are also lighter, safer, and easier to handle. Made with a 1.75" fiberglass rod mechanical member. Seal with patented water migration prevention technology.

HPI Trunnion Insulators meet the electrical and mechanical requirements of ANSI C29.7 and C29.18. They are designed with a 3/4-10 inch center hole thread. These insulators are direct replacements for porcelain or composite insulators.

Benefits:

- Easy handling: lighter than porcelain.
- HDPE prevents chips, cracks, and breaks.
- Resistant to impact damage, breakage, and vandalism.
- Guaranteed for life
- Made in the USA

Part Number	Description	Voltage	ANSI Class	Stud Size
HPI-TLP-15V	Trunnion Style Line Post, Vertical position	25kV	57-11/51-12	3/4" -UNC 10
HPI-TLP-15H	Trunnion Style Line Post, Horizontal position	25kV	57-21/51-22	3/4" -UNC 10
HPI-TLP-17V	Trunnion Style Line Post, Vertical position	35kV	57-12/51-13	3/4" -UNC 10
HPI-TLP-17H	Trunnion Style Line Post, Horizontal position	35kV	57-22/51-23	3/4" -UNC 10
HPI-TLP-20V	Trunnion Style Line Post, Vertical position	46kV	57-13/51-14	3/4" -UNC 10
HPI-TLP-20H	Trunnion Style Line Post, Horizontal position	46kV	57-23/51-24	3/4" -UNC 10
HPI-TLP-25V	Trunnion Style Line Post, Vertical position	69kV	57-14/51-15	3/4" -UNC 10
HPI-TLP-25H	Trunnion Style Line Post, Horizontal position	69kV	57-24/51-25	3/4" -UNC 10

Available in Flame Retardant. See Specialty Insulators for more detail. Trunnion Clamps are not included or provided by Hendrix.



Description:

Hendrix Station Post Insulators are molded from a proprietary blend of track-resistant, high-density polyethylene. They are ideal for use with bare wire conductors. They are more durable and reliable than traditional porcelain insulators. They are also lighter, safer, and easier to handle. Seal with patented water migration preventive technology.

HPI Station Post Insulators meet the electrical and mechanical requirements of ANSI C29.19. They are designed with a 3-inch diameter bolt circle with (4) 1/2-13 inch tapped holes. The Station Post is a direct replacement for porcelain or composite insulators.

Benefits:

- Easy handling: lighter than porcelain.
- HDPE prevents chips, cracks, and breaks.
- Resistant to impact damage, breakage, and vandalism.
- Guaranteed for life
- Made in the USA

Part Number	Description	Voltage	Technical Reference Number	Bolt Circle
HPI-SP-10	Station Post Insulator	15kV	TR205 P	3 inch bolt circle - 4 tapped holes, 1/2-13 inch
HPI-SP-14	Station Post Insulator	25kV	TR208 P	3 inch bolt circle - 4 tapped holes, 1/2-13 inch
HPI-SP-18	Station Post Insulator	35kV	TR210 P	3 inch bolt circle - 4 tapped holes, 1/2-13 inch
HPI-SP-22	Station Post Insulator	46kV	TR214 P	3 inch bolt circle - 4 tapped holes, 1/2-13 inch
HPI-SP-30	Station Post Insulator	69kV	TR216 P	3 inch bolt circle - 4 tapped holes, 1/2-13 inch

Available in Flame Retardant. See Specialty Insulators for more detail.

Flame Retardant Insulators



Description:

Hendrix Flame Retardant (FR) Insulators are molded from a specialty proprietary blend of track resistant, high-density polyethylene engineered to mitigate wildfire risk. They carry all the benefits of standard Hendrix HDPE Insulators with the added security of being designed to self-extinguish as soon as a flame source is removed; ensuring they do not become additional fuel in the event of a fire.

Apart from meeting the electrical and mechanical requirements for standard Hendrix Insulator models, FR Insulators are additionally tested according to UL 94 in which the material passes vertical burning V-O, the most stringent rating for UL 94.

Benefits:

- Self-extinguishes if caught on fire, mitigates wildfire spread
- Easy Handling: Lighter than porcelain.
- HDPE Prevents chips cracks and breaks.
- Resistant to Impact Damage, breakage, and vandalism.
- Guaranteed for life
- Made in the USA

High Temperature Insulators

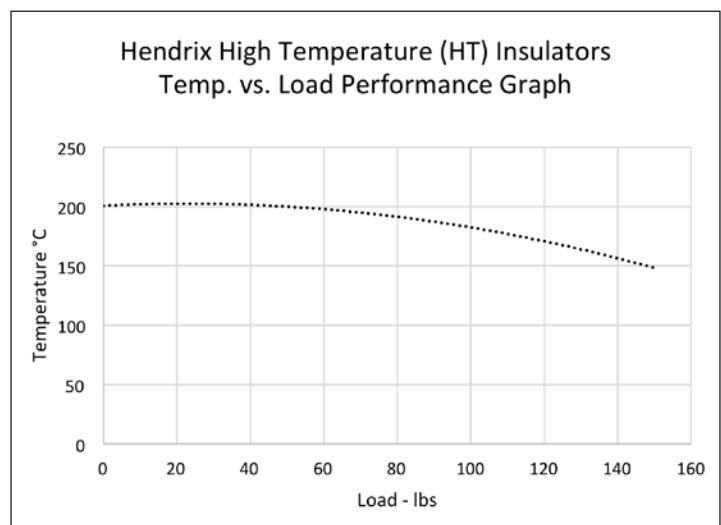
Description:

Hendrix High Temperature (HT) Insulators are molded from a specialty proprietary blend of track resistant, high-density polyethylene designed to be capable of withstanding and operating at 200°C Maximum Continuous Conductor Temperature when factored with the amount of mechanical loading applied. In systems where conductors suffer from high heat, HT insulators excel at delivering a solution that carries all the benefits of a standard HDPE Insulator and avoids potential ignition.

Conform to and exceed all ANSI standards and requirements respective of the insulator type and model.

Benefits:

- Resistant to high conductor temperatures, potentially preventing ignition
- Easy Handling: Lighter than porcelain.
- HDPE Prevents chips cracks and breaks.
- Resistant to Impact Damage, breakage, and vandalism.
- Guaranteed for life
- Made in the USA







The curve shows the point where temperature and mechanical load combinations result in <1/8" neck indentation - after 8 hours of continuous operation. (Tests conducted with 795 KC-mil, compressed, bare, aluminum conductor.)

Note: Results will vary based on conductor size and strand type

All Insulators are available in FR and HT options




Additional Specialty Insulators




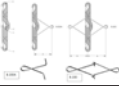
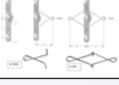


White Insulators	White (W) Insulators provide neutral conductor or phase identification	
Spool Insulators	Hendrix Spool Insulators are a direct replacement for porcelain spool insulators. They are more durable and reliable, lightweight, and resistant to impact damage, breakage and vandalism.	
HPI-CRI-U	Cable Restraint Insulator is designed for UD cable mounting and training in vaults, substations, cabinet and risers. Multi-position mounting and made from UV resistant Polymers	
HPI-2030	This Hendrix Spool Insulator is more durable and reliable than traditional wet-process porcelain insulators. It is designed with a non-standard neck and compatible with standard mounting hardware. It is a direct replacement for 2030 porcelain insulators	

Please contact us to discuss your specific needs, pricing and availability

Accessories

VTST-1	Stringing tool for use with the Vise Top insulators, short style	
VTST-2	Stringing tool for use with the Vise Top insulators, long style	
B-1	Replacement eye-bolt for the Vise Top insulators	

Secondary Voltage

S8-800	Vertical Secondary Spacer- Made out Gray UV Resistant HDPE - High Density Polyethylene material	
B-200A	Aluminum Single Bail for single mid span taps * For use with S8-800	
B-200	Aluminum Double Bail for double mid-span taps * For use with S8-800	
S604GR	Secondary Cable Spreader- Made out Gray UV Resistant HDPE - High Density Polyethylene material	
ST-3	Cable Spreader Tool	

Tie-Top Polyethylene Pin Insulators

Hendrix Tie Top Insulators are molded from a proprietary blend of gray, track-resistant, high-density polyethylene. They are ideal for use with all types of construction using either bare wire or covered conductors. They are especially well suited for areas of vandalism. Ballistics tests have shown that even with damage from a rifle or shotgun, the insulators are still able to perform.

ANSI Class Number	Hendrix (Polyethylene)	Gamma/Lapp (Porcelain)	PPC (Seves) (Porcelain)	Victor Imported (Porcelain)	Newell (Porcelain)	Santana (PPC/Seves) (Porcelain)	PLH (Porcelain)	MacLean (Porcelain)	Description
55-3	HPI-55-3*	6184R-70	261-S	VI 605R	2355530	PI 23132	P553GR	DP55-3	15KV "C" Neck; 1" Threads
55-4	HPI-55-4*	6183R-70	366-S	VI 606R	2355540	PI 23152	P554GR	DP55-4	15KV "F" Neck; 1" Threads
55-5	HPI-55-5-01	7061R-70	380-S	VI 609R	2355550	PI 23253	P555GR	DP55-5	25KV "F" Neck; 1" Threads
	HPI-25-01		380-S	VI 609R	2355550	PI 23253	P555GR	DP55-5	25KV "F" Neck; 1" Threads
55-6	HPI-35J-01	320275R-70	386-ST	VI 611R	2355560	PI 23254		DP55-6	35KV "J" Neck; 1" Threads
55-7	HPI-35J-02								35KV "J" Neck; 1 3/8" Threads
56-1	HPI-25J-02*	8248R-70	1027-ST	VI 627R	2365610	PI 43231	P561GR	DP56-1	25KV "J" Neck; 1 3/8" Threads
	HPI-55-5-02								25KV "F" Neck; Tie Top; 1 3/8" Threads
	HPI-25-02								25KV "F" Neck; Tie Top; 1 3/8" Threads
	HPI-25J-01								25KV "J" neck; 1" Threads
	HPI-35-01								35KV "F" Neck; Tie Top; 1" Threads
	HPI-35-02								35KV "F" Neck; Tie Top; 1 3/8" Threads

*RUS approved

Other items can be approved based on RUS exception

Spools

HPI Spool Insulators are used mainly to insulate and support the secondary conductors at the pole. Spool Insulators are mounted to the pole using various clevis configurations and are compatible with all manufacturers' hardware designs.

ANSI Class Number	ANSI Number	Hendrix (Polyethylene)	Gamma/Lapp (Porcelain)	PPC (Seves) (Porcelain)	Victor Domestic (Porcelain)	Santana (PPC/Seves) (Porcelain)	PLH (Porcelain)	MacLean (Dulhunty) (Porcelain)	Joslyn (MacLean) (Porcelain)	Hubble (Chance) (Enerscan) (Plastic)	Descrip.
53-2	C29.3	HPI-53-2*	8442-70	5101	2012	RO12012	P532G	DP-53-2	J 151	C9091032P	3" Spool

*RUS approved

Line Post Insulators

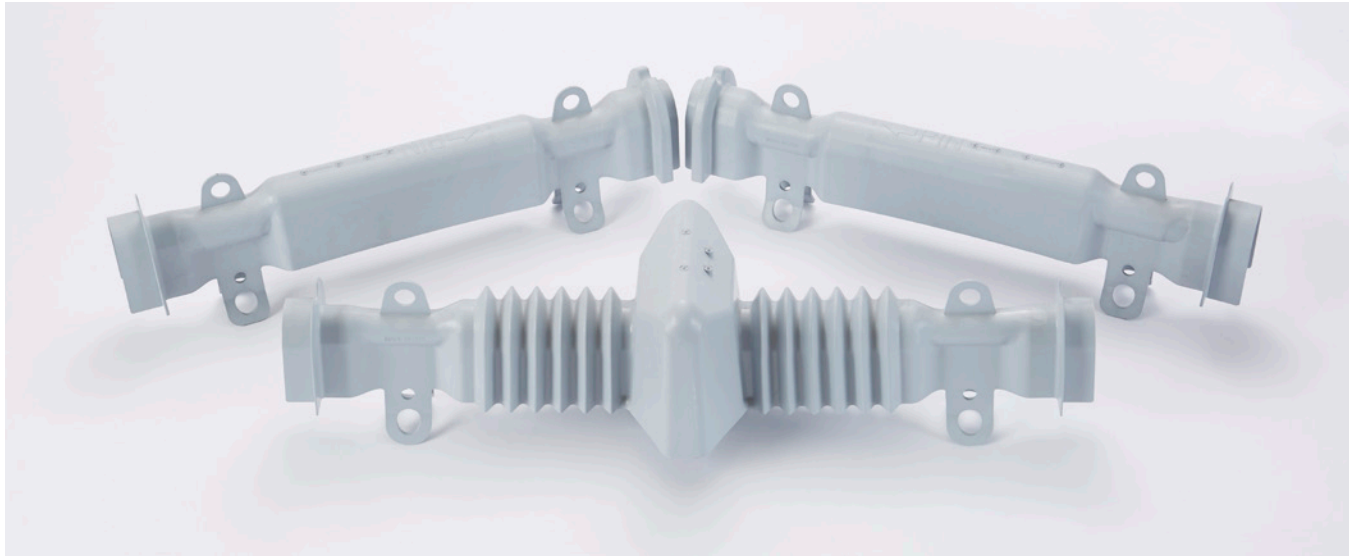
Hendrix Line Post Insulators are molded from a proprietary blend of track-resistant, high-density polyethylene. They are ideal for use with all types of construction using either bare wire or covered conductors. HPI Line Post Insulators meet the electrical and mechanical requirements of ANSI C29.7 and C29.18. They are designed with a standard ANSI "F" neck and center tap 3/4" thread size.

Porcelain						
Hendrix (Polyethylene)	Gamma/ Lapp (Porcelain)	Victor Imported (Porcelain)	NGK (Porcelain)	Santana (PPC) (Porcelain)	PLH (Porcelain)	Description (Nominal Voltage Shown)
HPI-LP-9C*	4215PX-70	2115	N/A	5015	N/A	15KV "C" Neck; Tie Top; 3/4" threads
HPI-LP-9F*	4320PX-70	2120	N/A	5120	N/A	15KV "F" Neck; Tie Top; 3/4" threads
HPI-LP-11F*	9325X-70	2025	N/A	5125	P57-1G	25KV "F" Neck; Tie Top; 3/4" threads
HPI-LP-14*	4327PX-70	2127	N/A	5125	N/A	25KV "F" Neck; Tie Top; 3/4" threads
HPI-LP-14*	9325X-70	62055	DA55004E	5135	P57-2G	25KV "F" Neck; Tie Top; 3/4" threads
HPI-LP-14*	9335X-70	62056	DA65008E	5145	P57-3G	35KV "F" Neck; Tie Top; 3/4" threads

*RUS approved

Composite				
Hendrix (Polyethylene)	MacLean	K-Line	Hubble (Ohio Brass) (VeriLite)	Description (Nominal Voltage Shown)
HPI-LP-9C*	NPNN20XG07S0	KL15STC	80S0150C09	15KV "C" Neck; Tie Top; 3/4" threads
HPI-LP-9F*	NPNN20XG07S0	KL15STF	80S0150F09	15KV "F" Neck; Tie Top; 3/4" threads
HPI-LP-11F*	NPNN20XG09S0	KL28STF	80S0280F09	25KV "F" Neck; Tie Top; 3/4" threads
HPI-LP-14*	NPNN20XG09S0	KL28STF	80S0250F09	25KV "F" Neck; Tie Top; 3/4" threads
HPI-LP-14*	NPNN20XG13S0	KL35STF	80S0280F09	35KV "F" Neck; Tie Top; 3/4" threads
HPI-LP-14*	N/A	N/A	N/A	25/35KV "F" Neck; Tie Top; 3/4 threads

*RUS approved



Description:

The Hendrix line of Wildlife Protection Products is designed to protect wildlife from live line contact as well as reduce power outages, and assists in the implementation of your avian protection plan.

Benefits:

- Prevents harm to wildlife
- Improves circuit reliability, prevents outages
- Installs quickly and easily
- Hot stick compatible
- Designed for both polymer and porcelain pin-type insulator applications

HRS-VT-KIT	Vise Top Insulator Cover kit containing one (1) center piece, two (2) extension arms and six (6) connector pins. Designed to protect wildlife from live line contact, reduce power outages and assist in the implementation of your Avian Protection Plan
HRS-TT-KIT	Tie Top Insulator Cover kit containing one (1) center piece, two (2) extension arms and six (6) connector pins. Designed to protect wildlife from live line contact, reduce power outages and assist in the implementation of your Avian Protection Plan
HRS-TT-BODY	Tie Top Body only
HRS-EXTENSION	Extension arm for both HRS-VT or TT
HRS-VT-BODY	Vise Top Body only
HPP-24	The HPP-24 Perch Preventer is a unique, hinged, adjustable device designed to prevent birds from landing between phases on transmission and distribution structures
BG-9	The BG-9 is a wildlife guard that is installed on the bushings of transformers and other power equipment. It covers the lead wire and electrical connections to the bushings and prevents contact by birds and squirrels
LINEDUC	LINEDUC is a protective guard which can be easily clipped onto bare or covered conductors, messengers, service drops and communication cables. It protects conductors from abrasion and contact by tree limbs and animals. Available in standard and jumbo sizes, and in black or gray color.
LINEDUC-BRIDGE	LINEDUC -BRIDGE is an assembly of at least two protective LINEDUC guards connected by a bridge. It is intended to cover a long distance of bare conductor such as a full span length



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the utility industry
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September 2024