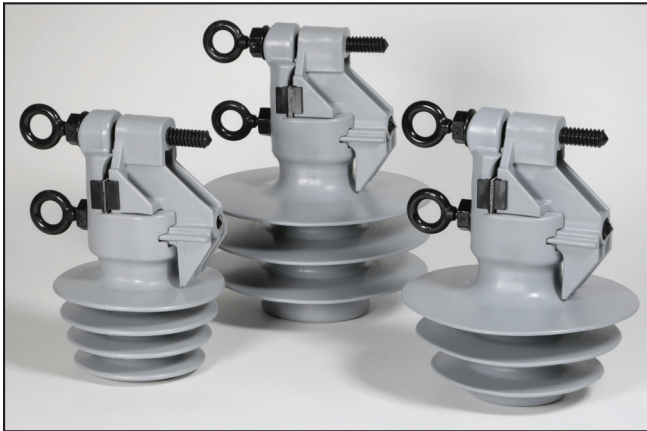




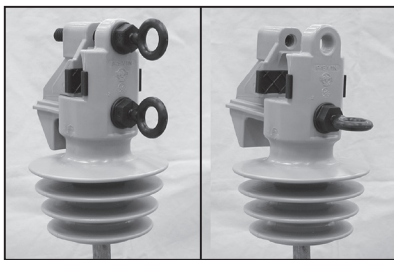
INSULIGN™ Polymer Insulators: Vise Top (VT)

Be sure to read and completely understand this procedure before applying product. Be sure to select the proper PREFORMED™ product before application.



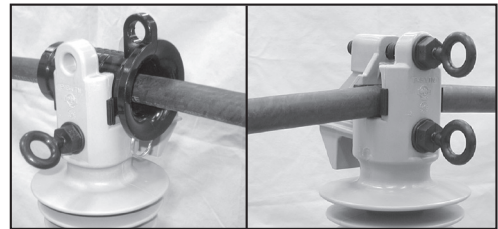
Step #1 Install the insulator on the pin and hand tighten until the mastic material provides resistance to the installation rotation. If the clamp inserts are not in-line with the conductor, the insulator can be turned up to an additional one half-turn for the purpose of alignment. If it is not possible to turn the insulator, loosen the nut on the pin, align the insulator, and retighten. Make sure the insulator remains tight on the pin and in contact with the mastic in the insulator.

Step #2 For the Vise Top (VT) Polymer Insulators, remove the top torque bolt for conductor or Stringing Tool installation.

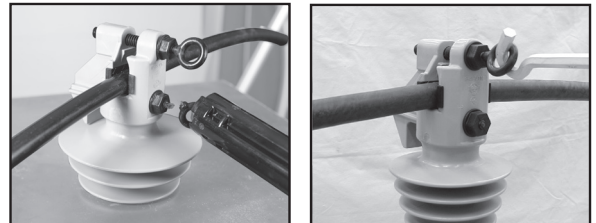


NOTE: Vise Top (VT) Polymer Insulators can be supplied with Universal Inserts that are compatible with all conductor types, plastic inserts for jacketed conductors, aluminum inserts for bare aluminum conductors, and bronze inserts for bare copper conductors.

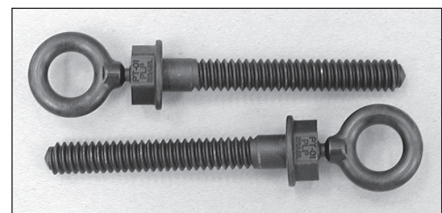
Step #3 If using the VT Stringing Tool for conductor stringing, install the tool by backing the lower torque bolt out until the stringing tool slides into place. Tighten bolt slightly to secure tool. After the conductor is pulled into place, remove the tool and reinstall the top torque bolt.



Step #4 Secure the conductor in the VT insulator by first tightening the **BOTTOM** torque bolts until the ring breaks off flush with the hexagonal head of the bolt. Next, tighten the **TOP** torque bolt in the same manner. This process can be accomplished with the use of the hook tool or with a shotgun stick.



Step #5 New torque bolts should be utilized whenever the completely installed bolts are loosened for any reason.

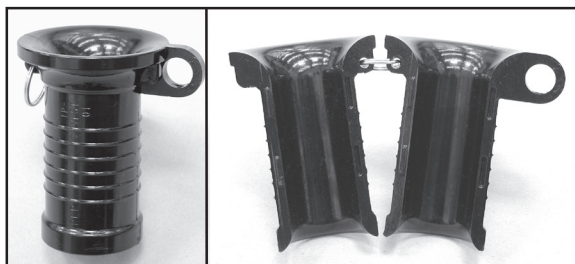


Torque Bolts – Catalog # PT-01

VT Polymer Insulators may be reused if in good condition. Do not reuse torque bolts that have been completely applied and the rings snapped off, or if they are damaged in any way.

INSTALLATION TOOLS - OPTIONAL

Optional installation accessory tools include the cable Stringing Tool and the Hook Tool.



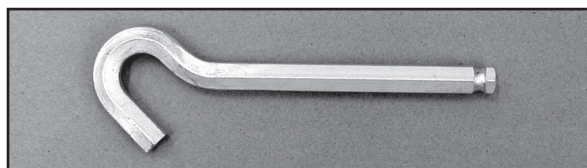
Stringing Tool – Catalog # IP-VLST-01

NOTE: The Stringing Tool is designed for use with nonmetallic pulling lines and jacketed conductors only.

The tool is not recommended for use with bare cables, long spans, line or sag angles over approximately 10 percent. A proper size stringing block should be used at the first and last pole, at large line or sag angles, or long spans throughout the pull, rather than the tool.

It is recommended that harsh material pulling ropes, such as nylon, be avoided to minimize excessive wear to the inner bore surface of the tool. It is also suggested that low pulling speeds be used when pulling rope or cable through the tool to avoid excessive wear.

The tool can be reused, however, it is recommended the tool be inspected after each pull to ensure it is suitable for further use. Areas of wear on the tool from previous pulls can be rotated away from where the rope and conductors will rest in the bore during subsequent pulls. However, do not reuse the tool if there has been excessive wear throughout all areas of the inner bore.



Hook Tool – Catalog # VTHT-01

NOTE: The Hook Tool is designed for use with line truck hydraulic tools. It is designed to fit the existing quick disconnect attachment on most hydraulic wrenches.

Consult PLP for additional recommendations.

SAFETY CONSIDERATIONS

This application procedure is not intended to supersede any company construction or safety standards. This procedure is offered only to illustrate safe application for the individual. **FAILURE TO FOLLOW THESE PROCEDURES MAY RESULT IN PERSONAL INJURY OR DEATH.**

Do not modify this product under any circumstances.

This product is intended for use by trained technicians only. **This product should not be used by anyone who is not familiar with, and not trained to use it.**

When working in the area of energized lines, extra care should be taken to prevent accidental electrical contact. Be sure to wear proper safety equipment per your company protocol.

For proper performance and personal safety, be sure to select the proper size PREFORMED™ product before application.

PREFORMED products are precision devices. To ensure proper performance, they should be stored in cartons under cover and handled carefully.



PREFORMED LINE PRODUCTS

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