EKM METERING INC.

Insulation Piercing Connector Spec Sheet

Technical Specifications:
- Dimensions: 2.5" x 1.75" x 1.5"
- Weight: 1.8 oz
- Maximum Voltage: 1000 volts(1kV)
- Maximum Current: 55 Amps
- Maximum operating temperature: 90ºC
- Maximum operating temperature: -10ºC
- Main wire size range: #6AWG to 4/0
- Branch wire size range: #14AWG to #8AWG
- Body material: UV resistant fiberglass reinforced polymer
- Teeth material: tinned brass
- Bolt material: galvanized steel
- Compliance: IEC 61238-1 : 2003

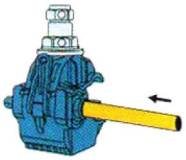
Product Description:
This insulation piercing connector(IPC) is suitable for all types of single-insulated wires. When tightening the bolts, the teeth of the contact plates penetrate the insulation and establish a perfect contact. The bolts can be tightened until the heads shear off. Stripping the insulation is not necessary. Suitable for copper or aluminum wire cores of up to 4/0 on the Primary Line and down to 14AWG on the Secondary Line. The insulation material is made of corrosion and weather resistant fiberglass reinforced polymer. The contact teeth are made of tinned brass, the center bolt is made of galvanized steel, and the nut is made of aluminum.

General Concepts:
- Provides for a simple installation with no need to strip cable insulation.
- The piercing pressure from the nut remains constant over time, maintaining a good electrical connection with no damage to the wires.
- The self-sealing frame creates a weather proof seal around the piercing teeth, preventing corrosion or damage to the wire leads over time.
- The insulated body case is resistant to environmental aging and can insulate up to 1kV.

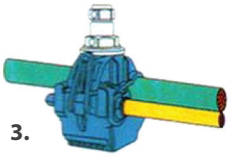
Advantages:
- The only tool required for a proper installation is a standard crescent, open-ended, or socket wrench.
- The shear head is designed to break at the proper torque so installation costs are reduced and there is no risk of over/under torque.
- The connector's teeth are designed to pierce the insulation of the cable to make an electrical contact and are pre-filled with neutral grease so the costs of stripping the conductor and applying grease are eliminated.
- The body of the IPC is insulated which prevents the need for electrical tape or special insulation cover.
- An electrical connection can be made at any point along the main line cable without cutting or disconnecting the cable.
- The IPC enables a safe installation as the body is completely insulated.

Installation:

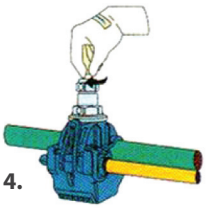
1. Adjust the nut to a suitable location.



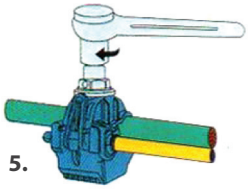
2. Put the branch wire into the cap sheath fully.



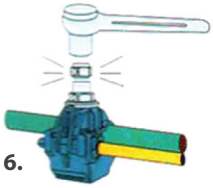
3. Insert the main wire.



4. Turn the nut by hand and fix the IPC in a suitable location.



5. Begin to tighten the nut with a wrench.



6. Continue to tighten until the nut until the proper torque separates it from the rest of the IPC.