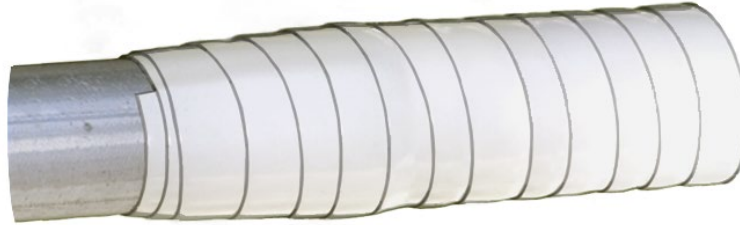


Self-Amalgamating, Silicone Rubber, Insulating Tape



1. Scope

This standard covers the requirements for self amalgamating, silicone rubber, insulating tape.

This standard applies to the following Seattle City Light stock number:

Stock Number	Description
013048	2-inch wide x 36 foot long roll

2. Application

Self amalgamating, insulating tape is used to cover exposed, high-voltage conductor, bus, and fittings for the purpose of protecting small birds and other wildlife from electrical shock.

Self amalgamating, insulating tape is suitable for indoor or outdoor applications, non-tracking, and easy to install.

Self amalgamating, insulating tape may only be installed on de-energized and grounded systems.

Upon application, the tape amalgamates the overlapped layers together, producing a complete seal. A single layer of tape, two-thirds overlapped, will provide an AC voltage withstand rating of 15 kV. A second layer will increase the AC voltage withstand rating to 35 kV.

Surface should be free of sharp edges or burrs and thoroughly cleaned and degreased before applying. Use sufficient tension to provide snug fit, but do not stretch more than 10%.

Although insulating tape will stick to itself and other insulating materials, it will not adhere to metal or porcelain allowing easy removal.

The insulating tape has a shelf life that may exceed the suggested 24 months from the marked manufacture date. Any tape that is past 24 months old may be field tested to determine whether it can still be used or be discarded.

The manufacturer suggested field test is as follows: Cut a section, give it a small stretch and do a 2/3 overlap, but ending square. In 30 minutes, you should not be able to take it apart. Discard it if you can take it apart.

For additional information, refer to SCL 0072.01.

3. Attributes

Self amalgamating, insulating tape shall have the following attributes:

Base material	silicone rubber
Color	gray
Continuous operating temperature, maximum	90 degrees C
Install temperature, minimum	0 degrees C
Withstand voltage, one minute dry, AC, minimum	
One insulation layer	15 kV
Two insulation layers	35 kV

4. Packaging

Insulating tape shall be packaged to prevent damage during shipping, handling, and storage.

Individual packages shall be legibly marked with:

- Manufacturer name
- Manufacturer catalog number
- Product description
- Date of manufacture
- Seattle City Light stock number

Shipping containers shall be legibly marked with:

- Manufacturer name
- Manufacturer catalog number

5. Issuance

Stock unit: RL

6. Approved Manufacturer

Stock Number	Description	Approved Manufacturer
013048	2 inch wide x 36 foot long roll	Tyco Electronics/ Raychem, MVFT-G-2-12(B4)

7. References

SCL Construction Standard 0072.01; "Avian Protection"

8. Sources

EDR-5465; Medium Voltage Fusion Tape (MVFT) Electrical Qualification Testing; Tyco Electronics; January 28, 2009

PCN F1814P-000; Medium Voltage Fusion Tape, General Information and Installation Instructions, Tyco Electronics; May 1, 2009

Shipek, John; SCL Standards Engineering Supervisor, subject matter expert, and originator of 6910.40