Standard Number: **7366.55**Superseding: October 7, 2013

Effective Date: December 8, 2023

Page: 1 of 3

# Tape, Vinyl, Electrical



# 1. Scope

This standard covers the requirements for pressure-sensitive, vinyl, electrical tape.

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

Stock No.	Description		
736655	3/4 in x 66 ft roll		
736656	1-1/2 in x 44 ft roll		
736644	1 in x 36 yd roll		
736650	2 in x 36 yd roll		

#### 2. Application

Vinyl electrical tape is intended for the following applications:

- Primary electrical insulation for wire and cable splices rated up to 600 volts
- Primary electrical insulation for 600-volt bus applications, and protective jacketing for low and high-voltage bus
- Protective jacketing for high voltage cable splices and repairs
- Harnessing of wires and cables
- Suitable for both indoor and outdoor applications
- Suitable for both above and below-grade applications

Tape is applied in half-lapped layers with sufficient tension to produce a uniform wind (for most applications this tension will reduce the tape's width to approximately 5/8 of its original width). Connectors having irregular surfaces should be first padded with an appropriate product.

Standard Coordinator Laura Vanderpool Standards Engineering Supervisor

Division Director Bob Risch

But Hamon Rfori

Standard Number: **7366.55** 

Superseding: October 7, 2013 Effective Date: December 8, 2023

Page: 2 of 3

## 3. Industry Standards

Tape shall meet the relevant requirements of the latest revision of the following industry standards:

**ASTM D1000-10**; Standard Test Methods for Pressure-Sensitive Adhesive-Coated Tapes Used for Electrical and Electronic Applications

**UL 510**; Underwriters Laboratories, Standard for Polyvinyl Chloride Polyethylene and Rubber Insulating Tape

## 4. Requirements

#### 4.1 General

Tape backing material	Polyvinyl chloride (PVC)
Adhesive	Rubber-based, pressure-sensitive
Color	Black
Voltage rating, per UL 510	600 V
Shelf life (inside storage)	5 years from the date of manufacture
Temperature rating, UL	15°F to 176°F (-10°C to 80°C)
Tensile strength, min	See Section 8
Thickness, mils	See Section 8

Tape shall have excellent resistance to abrasion, moisture, alkaloids, acids, corrosion, and varying weather conditions.

Tape shall be Underwriters Laboratories (UL) listed.

Tape shall be flame-retardant and sunlight and cold resistant per UL 510.

Tape shall be RoHS (European Union Directive 2002/95/EC for Restriction of Hazardous Substance) compliant.

#### 5. Testing

Test data that confirms the properties cited in the manufacturer's data sheet and this material standard shall be provided upon request.

## 6. Packaging

Each roll of tape shall be individually packaged in cellophane, plastic, or metal containers and legibly marked with the following information:

- Manufacturer name
- Manufacturer catalog number
- Product description
- SCL stock number

The number of rolls of tape per case shall be according to Section 8.

Each shipping container shall be legibly marked with an SCL purchase order number.

# 7. Issuance

Stock unit: RL

Standard Number: **7366.55** 

Superseding: October 7, 2013 Effective Date: December 8, 2023

Page: 3 of 3

# 8. Approved Manufacturers

		Thickness			
Stock No.	Description	(mils)	Tensile Strength	<b>Rolls Per Case</b>	3M Catalog No.
736655	Scotch vinyl electrical tape 37, 3/4 in x 66 ft	8.5	2094 psi/17.8 lb/in	100	7010348233
736656	Scotch vinyl electrical tape 15, 1-1/2 in x 44 ft	7	2062 psi/14.4 lb/in	90	7010397047
736644	Scotch vinyl electrical tape 22, 1 in x 36 yd	10	2400 psi/24 lb/in	48	80-0120-1705-1
736650	Scotch vinyl electrical tape 22, 2 in x 36 yd	10	2400 psi/24 lb/in	48	80-0120-1707-7

#### 9. References

3M Specification-Grade Vinyl Electrical Tape 15, Data Sheet, August 2022

**3M Specification-Grade Vinyl Electrical Tape 37**, Data Sheet, August 2022

3M Scotch Vinyl Electrical Tape 22, Data Sheet, June 2022

SCL 7366.0 (canceled) Tape, Electrical, Pressure-Sensitive

SCL 7366.5 (canceled) Tape, Electrical, Pressure-Sensitive, Low Temperature Type

Shipek, John; Standards Supervisor and originator of 7366.55

**Vanderpool, Laura**; Standards Engineering Technical Writer and subject-matter expert for 7366.55

www.3m.com/electrical