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.

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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