

Tape, Detectable, Underground, Marking



1. Scope

This standard covers the requirements for detectable, underground marking tape.

Marking tape is also known as detectable tape.

This standard applies to Seattle City Light (SCL) Stock No. 736800.

2. Application

Marking tape is used for detecting, locating, identifying, and protecting buried electric lines installed in trenches or conduits.

Marking tape has a solid core, which provides for detectability with either inductive or conductive modes using a pipe and cable locator.

3. Industry Standards

Marking tape shall meet the applicable requirements of the latest revision of the following industry standards:

ASTM D2103; Standard Specification for Polyethylene Films and Sheeting

ASTM D882; Standard Test Method for Tensile Properties and Elongation of Thin Plastic Sheeting

ASTM D2578; Standard Test Method for Wetting Tension of Polyethylene and Polypropylene Films

ASTM D792; Standard Test Methods for Density of Plastics by Displacement

ASTM D671; Standard Test Method for Flexural Fatigue of Plastics

4. Requirements

Marking tape shall be designed with an aluminum core so that it can be detected using standard inductive locating equipment.

Print ink shall be permanent and resistant to removal by normal handling or burial.

Tape and ink shall be chemically inert and not degrade when exposed to acids, alkalis, and other destructive substances commonly found in soil.

Text shall be reverse printed.

Additional requirements shall be as cited in Table 4.

Table 4. Marking Tape Requirements

Text	CAUTION ELECTRIC LINE BURIED BELOW or CAUTION BURIED ELECTRIC LINE BELOW
Text color	Black
Background	Diagonal-striped red on white background or red with white diamonds
Overall thickness, range, nominal	5 to 6 mil
Width, nominal	3 in
Length per roll	1000 ft

5. Packaging

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

Marking tape shall be supplied on rolls.

Each standard package shall be legibly marked with the following information:

- Manufacturer identification
- Product description
- SCL stock number
- Quantity

Each shipping container shall be legibly marked with the following information:

- SCL purchase order number

6. Issuance

Stock Unit: RL

7. Approved Manufacturers

Manufacturer	Catalog No.	Background Style
Reef Industries Inc.	42-4610	Red with white diamonds
Pro-Line Safety Products	103126053	Diagonal striped red on white background

8. Sources

prolinesafety.com
reefindustries.com

Shetab, Muneer; SCL Standards Engineer, originator, and subject matter expert for 7005.05

Stock Catalog Page 70-51; April 27, 2018

Stock Catalog Page 73-40; January 11, 2014