Tape, Electrical Shielding

1. Scope

This standard covers the requirements for electrical shielding tape.

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

Stock Number	Description
736244	1 in x 15 ft roll
736243	2 in x 10 ft roll

2. Application

Shielding tape is intended to:

- Provide shielding for cable joints on shielded power cables
- Make the conductive portion of the stress cone on power cable terminations
- Smooth connector area in oil-filled cables

Shielding tape is an all-metal, open-weave, shielding braid tape in a flat, cable-like form. It is conformable due to the open-weave knit construction of two No. 36 AWG tinned copper wires.

Because of its construction, the tape interlocks with the previous layer, thereby assuring a tighter wrap (no solder bead is required).

This product ***should not*** be used as a ground strap or jumper wire; its ampacity is not sufficient to carry large fault currents.

3. Properties (nominal)

Shielding tape shall be an all-metal, flat, open-weave shielding braid that is compatible with all power cable insulations and all high-voltage splicing and terminating materials.

Material	Woven No. 36 AWG tinned copper wire
Material thickness	16 mil
Temperature rating, emergency	130° C (266° F)
Breaking strength, per ASTM D1000	22 lb/in (of width)
Shelf life (inside storage)	Indefinite

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

4. Testing

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

5. Packaging

Each roll of tape shall be individually packaged in cellophane, plastic, cardboard, or metal containers to prevent damage during shipping, storage, and casual handling prior to use.

Each roll of tape shall be legibly marked with the following information:

- Manufacturer's name
- Manufacturer’s catalog number
- Product description

Number of rolls of tape per case shall be according to Section 7.

Each shipping container shall be marked with Seattle City Light's Purchase Order Number.

6. Issuance

RL

7. Approved Manufacturers

Stock Number	**736244**
Description:	1 inch x 15 ft roll
Manufacturer	3M
Product	24
UPC	054007-15041
Case Quality	50 rolls
Manufacturer	Plymouth
Product	15 Plybraid
ID	5415
Case Quality	50 rolls

Stock Number	**736243**
Description:	2 inch x 10 ft roll
Manufacturer	3M
Product	24
UPC	051128-57289
Case Quality	50 rolls
Manufacturer	Plymouth
Product	15 Plybraid
ID	2230
Case Quality	40 rolls

8. References

3M Electrical Products catalog, 80-6016-0382-4, 2011

Scotch 24 Electrical Shielding Tape, Data Sheet, 2002, 78-8126-5662-3-A

SCL 7362.2 (canceled) Shielding Tape, Electrical, Tinned Copper Wire, Tubular Knit

Shipek, John; Standards Engineer and originator of 7365.22.

Plymouth Electrical Tapes Product Catalog, PRE-01/USA

www.3m.com/electrical

www.plymouthrubber.com