

**SPLICE COVERS, HEAT SHRINK TYPE, HEAVY WALL**



**1. Scope**

This standard covers the requirements for heavy wall, heat shrink type splice covers.

This standard applies to the Seattle City Light Stock Numbers cited in Section 8.

Sealing caps, breakout boots, and medium and thin wall heat shrink tubing are outside the scope of this standard.

**2. Application**

Splice covers, also known as shrink tubes or shrinks, are used to seal, insulate, and protect cable joints and terminations. They are appropriate for submersible and direct burial installations.

Splice covers may also act as primary insulation for systems rated 600 volts and below. Product is considered non-flame retardant.

Use only an approved propane torch, Stock Number 765897, to install heat shrink products.

**3. Industry Standards**

Splice covers shall meet the applicable requirements of the following industry standards:

**ANSI C119.1-2011** - American National Standard for Electric Connectors-Sealed Insulated Underground Connector Systems Rated 600 Volts

**UL Standard 486D** - Insulated Wire Connectors for Use with Underground Connectors

**4. Attributes**

Splice covers shall have the following attributes:

Material	cross-linked polyolefin
Color	black
Shrink ratio, expanded-recovered, <i>minimum</i>	3:1
Shrink temperature, minimum, degrees C	121
Dielectric rating, kV	1
Operating temperature, continuous, degrees C	
<i>minimum</i>	-55
<i>maximum</i>	110
Tensile strength, pound-force per square inch, <i>minimum</i>	2400
Shelf life, <i>minimum</i>	10 years

Splice cover interiors shall be lined their full length with a smooth coating of thermoplastic (hot melt) adhesive.

Splice covers shall be non-corrosive.

Splice cover lengths, expanded internal diameters, recovered internal diameters, and wall thicknesses shall be as specified in Section 8.

<i>standards coordinator</i>	<i>standards supervisor</i>	<i>unit director</i>
 John Shipek	 John Shipek	 Darnell Cola

**Material Standard**

Splice Covers, Heat Shrink Type, Heavy Wall

**5. Design Changes**

Manufacturer shall inform Seattle City Light in writing of all design changes that could affect the product's understood or published attributes.

- Manufacturer's name
- Manufacturer's catalog number
- Product description
- Seattle City Light's Stock Number

**6. Packaging**

Splice covers shall be packaged to prevent damage during shipping, handling, and inside storage.

Splice covers shall be packaged and shipped in their natural round state. Product received bent, collapsed, creased, or otherwise deformed will not be accepted.

Individual packages shall be legibly marked with:

Shipping containers shall be legibly marked with:

- Seattle City Light's Purchase Order Number

**7. Issuance**

Stock Unit: EA

**8. Approved Manufacturers**

Stock Number	Length, Nominal, in	Expanded Internal Diameter Minimum, in	Recovered Internal Diameter Maximum, in	Recovered Wall Thickness, Nominal, in	Approved Manufacturer	Catalog Number
<b>737450</b>	9	1.10	0.37	0.120	3M	ITCSN-1100-9
					TE Connectivity	WCSM-34/8-225-S
<b>737451</b>	12	0.75	0.24	0.090	3M	ITCSN-0800-12A
					DSG-Canusa	CFW750-BK-PRT-D-12
<b>737452</b>	12	1.50	0.50	0.140	3M	ITCSN-1500-12
					TE Connectivity	WCSM-48/12-300-S
<b>737453</b>	12	1.10	0.37	0.120	3M	ITCSN-1100-12
					TE Connectivity	WCSM-34/8-300-S
<b>737455</b>	12	2.00	0.75	0.160	3M	ITCSN-2000-12
					TE Connectivity	WCSM-110-30-300-S
<b>737456</b>	12	3.00	1.25	0.160	3M	ITCSN-3000-12
					TE Connectivity	WCSM-110-30-300-S
<b>737601</b>	48	1.29	0.37	0.120	3M	-
					TE Connectivity	WCSM-34/8-1200-S
<b>737602</b>	48	1.50	0.50	0.160	3M	ITCSN-1500-48
					TE Connectivity	WCSM-48/12-1200-S
<b>737603</b>	48	2.00	0.75	0.160	3M	ITCSN-2000-48
					TE Connectivity	WCSM-56/16-1200-S
<b>737604</b>	48	3.00	1.25	0.160	3M	ITCSN-3000-48
					TE Connectivity	WCSM-110/30-1200-S

Note: TE Connectivity products have previously gone under the names of Tyco Electronics, Tyco, and Raychem

## **MATERIAL STANDARD**

Splice Covers, Heat Shrink Type, Heavy Wall

standard number: **7374.75**

superseding: new

effective date: February 15, 2013

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### **7. References**

**3M Data Sheet**; 78-8126-0422-7 C; 3M Heavy Wall Heat Shrink Tubing ITCSN; June 2011

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**Tyco Electronics** catalog; 4-1773455-0 E361; 12/2009