

**SEALING CAPS, HEAT SHRINK TYPE**



**1. Scope**

This standard covers the requirements for heat shrink type cable end sealing caps.

This standard applies to the following Seattle City Light Stock Numbers:

Stock Number	Internal Diameter, Maximum Recovered, in
737475	0.36
737477	0.70
737479	1.00
737485	1.26
737483	1.77
737481	2.76

Breakout boots, and heavy, medium and thin wall heat shrink tubing are outside the scope of this standard.

**2. Application**

Sealing caps are used to seal cable ends and provide mechanical and environmental protection.

Sealing caps may also be used as a live end seal 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**

Sealing caps shall meet the applicable requirements of the following industry standard:

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

**4. Attributes**

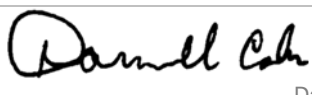
Sealing caps shall have the following attributes:

Material	cross-linked polyolefin
Color	black
Expanded wall thickness, in	0.050 ± 0.020
Shrink temperature, minimum, degrees C	121
Dielectric rating, minimum, kV	1
Operating temperature, continuous, degrees C	
minimum	-55
maximum	110
Shelf life, minimum	10 years

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

Sealing caps shall be non-corrosive.

Sealing caps details 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

Sealing Caps, Heat Shrink Type

standard number: **7374.85**

superseding: March 14, 2012  
 effective date: February 15, 2013  
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### 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.

### 6. Packaging

Sealing caps shall be packaged to prevent damage during shipping, handling, and inside storage.

Sealing caps 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:

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

Shipping containers shall be legibly marked with:

- Seattle City Light's Purchase Order Number

### 7. Issuance

Stock Unit: EA

### 8. Approved Manufacturers

Stock Number	Expanded Length, Nominal, in	Expanded Internal Diameter Minimum, in	Recovered Internal Diameter Maximum, in	Recovered Wall Thickness, Nominal, in	Approved Manufacturer	Catalog Number
<b>737475</b>	2.2	0.79	0.36	0.09	3M	SKE 8/20
					TE Connectivity	ESC-2/A
<b>737477</b>	3.5	1.37	0.70	0.12	3M	SKE 15/40
					TE Connectivity	ESC-3/A
<b>737479</b>	5.7	2.17	1.00	0.13	3M	SKE 25/63
					TE Connectivity	ESC-4/A
<b>737485</b>	6.5	2.87	1.26	0.13	3M	SKE 30/76
					TE Connectivity	ESC-5/A
<b>737483</b>	6.5	3.94	1.77	0.16	3M	SKE 45/100
					TE Connectivity	ESC-6/A
<b>737481</b>	5.7	4.70	2.76	0.16	3M	-
					TE Connectivity	ESC-7/A

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

### 9. References

**3M product documentation**, Heat Shrink Heavy Duty End Caps; 3M Part Numbers SKE 4/10 to SKE 45/100; dated September 1997

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