

TUBING, HEAT SHRINK TYPE, MEDIUM WALL



1. Scope

This standard covers the requirements for medium wall, heat shrink type tubing.

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

Stock Number	Body Use Diameter, Maximum, in
010414	1.25
737622	1.70
737623	2.90

Heavy and thin wall heat shrink tubing are outside the scope of this standard.

2. Application

Medium wall heat shrink tubing is applied over broken-out, taped-shielded cable to provide mechanical and environmental protection. Cables of this type are exclusive to the Network system.

Medium wall heat shrink tubing 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. Attributes

Shrink tubing shall have the following attributes:

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

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

Shrink tubing lengths, expanded internal diameters, recovered internal diameters, and wall thicknesses shall be as specified in Section 6.

standards coordinator	standards supervisor	unit director
 John Shipek	 John Shipek	 Darnell Cola

Material Standard

Tubing, Heat Shrink Type, Medium Wall

4. Packaging

Shrink tubing shall be packaged to prevent damage during shipping, handling, and inside storage.

Shrink tubing shall be packaged and shipped in its natural round state. Product received bent, collapsed, creased, or otherwise excessively 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

5. Issuance

Stock Unit: EA

6. Approved Manufacturers

Stock Number	Cut Piece Length, Nominal, in	Body Use Diameter, in		Recovered Wall Thickness, Nominal, in	Approved Manufacturer	Catalog Number
		Minimum	Maximum			
010414	48	0.50	1.25	0.08	DSG-Canusa	CFM1300, BK, PRT, D, 48
					INERTIA-REPL, Inc.	MWT3712-48A
					TE Connectivity	MWTM-35/12-1200-S
737622	48	0.65	1.70	0.08	DSG-Canusa	CFM1700, BK, PRT, D, 48
					INERTIA-REPL, Inc.	MWT5017-48A
					TE Connectivity	MWTM-50/16-1200-S
737623	48	1.00	2.90	0.11	DSG-Canusa	CFM3500, BK, PRT, D, 48
					INERTIA-REPL, Inc.	MWT8024-48A
					TE Connectivity	MWTM-85/25-1200-S

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

7. References

DSG-Canusa; www.dsgcanusa.com

INERTIA-REPL, Inc.; CAT010509; Rev. 1; January 2009

Shipek, John; SCL Standards Engineer, originator and subject matter expert for 7374.70 (john.shipek@seattle.gov)

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