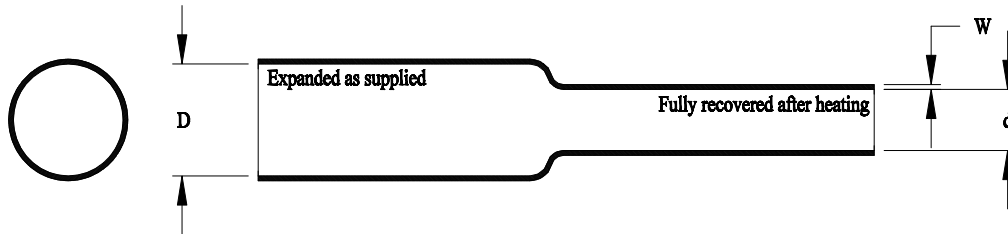


**Altera™
MT6000**
**Flexible, High Expansion Ratio,
Modified Polyolefin,
Heat - Shrinkable Tubing**



This specification covers the requirements for one type of single wall, electrical insulating, extruded tubing whose diameter will reduce to a predetermined size upon application of heat in excess of 110°C (230°F).

The tubing is fabricated from modified polyolefin crosslinked by irradiation. It shall be homogenous and essentially free from flaws, defects, pinholes, seams, cracks or inclusions.

The tubing is fabricated from materials which meet the requirements of U.S. Pharmacopeia Class VI Plastics. Color shall be black or clear unless otherwise specified.

Table 1: Dimensions 4:1 Shrink Ratio

Size	As Supplied		Recovered							
	Inside Diameter (D) Minimum		Inside Diameter (d) Maximum		Wall Thickness (W)					
					Minimum		Maximum		Nominal	
	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.
3/16	.187	4.75	.046	1.17	.017	0.43	.023	0.58	.020	0.51
1/4	.250	6.35	.062	1.57	.017	0.43	.023	0.58	.020	0.51
3/8	.375	9.53	.093	2.36	.017	0.43	.023	0.58	.020	0.51
1/2	.500	12.70	.125	3.18	.022	0.56	.028	0.71	.025	0.64

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Specification Control Drawing

		Tyco Electronics Corporation 300 Constitutional Drive Menlo Park, CA 94025 USA		Raychem Tubing		Title: Altera™ MT6000 Flexible, High Expansion Ratio, Modified Polyolefin, Heat - Shrinkable Tubing	
Tyco Electronics reserves the right to amend this drawing at any time. Users should evaluate the suitability of the product for their application							
Cage Code: 06090	Scale: None	Size: A	Rev. Date: 18-Jan-11	Rev.:	A	Sheet:	1 of 2

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Table 2: Properties

Property	Unit	Requirement	Test Method
Physical			
* Dimensions	Inches (<i>mm</i>)	In accordance with Table 1	
* Longitudinal Change	Percent	+0, -10 maximum	ASTM D 2671
* Concentricity (as supplied)	Percent	70 minimum	ASTM D 2671
* Tensile Strength	psi (<i>MPa</i>)	1,800 minimum (<i>12.4</i>)	ASTM D 2671,
* Ultimate Elongation	Percent	200 minimum	20"/minute
Secant Modulus (as supplied)	psi (<i>MPa</i>)	3.5 x 10 ⁴ maximum (<i>241</i>)	ASTM D 2671
Heat Resistance 168 hours at 125°C (257°F) Followed by test for: Ultimate Elongation			ASTM D 2671,
	Percent	100 minimum	20"/minute
Electrical			
Dielectric Strength	Volts/mil (<i>Volts/mm</i>)	500 minimum (<i>19.7</i>)	ASTM D 2671
Dielectric Withstand 3,000V, 60 Hz	sec	60 minimum	ASTM D 2671
Chemical			
Fluid Resistance 24 hours at 23 ± 3°C (77 ± 5°F) Isopropyl Alcohol 5% Saline Solution Cidex** Followed by tests for: Dielectric Strength			ASTM D 2671
	Volts/mil (<i>Volts/mm</i>)	500 minimum (<i>19.7</i>)	ASTM D 2671
Tensile Strength	psi (<i>MPa</i>)	1,800 minimum (<i>12.4</i>)	ASTM D 2671
Heavy Metals Analysis Cadmium Mercury Lead Bismuth Antimony	ppm	1 maximum (total of all metals)	USP XXII Physicochemical Tests-Plastics (Note 1)

* Denotes lot acceptance test

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Note 1: Sample preparation and extraction is per USP XXII. Metals analysis may be colorimetric as described in USP XXII or by equivalent quantitative analytical method.

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