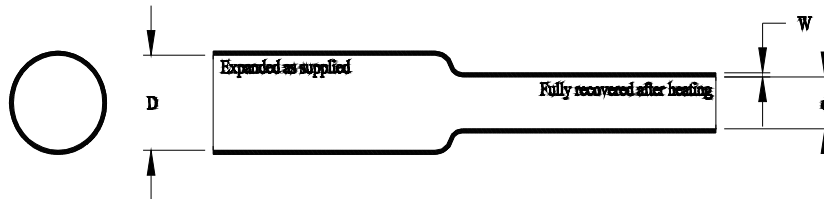


**Altera™
MT5000**
**Flexible, Modified Polyolefin,
Heat - Shrinkable Tubing**



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

Size	As Supplied		Recovered							
	Inside Diameter Minimum (D)		Inside Diameter Maximum (d)		Wall Thickness(Inches, Millimetres) (W)					
	in.	mm.	in.	mm.	Minimum	Maximum	Nominal			
3/64	.046	1.17	.023	0.58	.013	0.33	.019	0.48	.016	0.40
1/16	.063	1.60	.031	0.79	.014	0.35	.020	0.50	.017	0.43
3/32	.093	2.36	.046	1.17	.017	0.43	.023	0.58	.020	0.50
1/8	.125	3.18	.062	1.58	.017	0.43	.023	0.58	.020	0.50
3/16	.187	4.75	.093	2.36	.017	0.43	.023	0.58	.020	0.50
1/4	.250	6.35	.125	3.18	.022	0.56	.028	0.71	.025	0.64
3/8	.375	9.53	.187	4.75	.022	0.56	.028	0.71	.025	0.64
1/2	.500	12.70	.250	6.35	.022	0.56	.028	0.71	.025	0.64
3/4	.750	19.05	.375	9.53	.027	0.69	.033	0.84	.030	0.76
1	1.000	25.40	.500	12.70	.030	0.76	.040	1.01	.035	0.88
1-1/2	1.500	38.10	.750	19.05	.034	0.86	.046	1.17	.040	1.01
2	2.000	50.80	1.000	25.40	.038	0.96	.052	1.32	.045	1.14

Specification Control Drawing

	TE Connectivity 300 Constitutional Drive Menlo Park, CA 94025 USA		Raychem	Title: Altera™ MT5000 Flexible, Modified Polyolefin, Heat - Shrinkable Tubing		
	TE Connectivity reserves the right to amend this drawing at any time. Users should evaluate the suitability of the product for their application		Document No : MT5000			
Cage Code: 06090	Scale: None	Size: A	Rev. Date: 15-Apr-11	Rev. : B1	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>)	1800 minimum (<i>12.4</i>)	ASTM D 2671,
* Ultimate Elongation	Percent	200 minimum	20"/minute
Secant Modulus	PSI (<i>MPa</i>)	2.5 x 10 ⁴ maximum (<i>172</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>19.680</i>)	ASTM D 2671
Dielectric Withstand 3000V, 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>19,680</i>)	ASTM D 2671
Tensile Strength	PSI (<i>MPa</i>)	1800 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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