

MT3000 (thin wall fluoropolymer medical tube)

The flexible FDA registered and ISO 10993 medical grade heat shrink tube is used for electrical insulation and strain relief of components that are exposed to high temperatures - either during operation or during sterilization. Exceptional flexibility and thin-wall construction are well-suited for applications where pliancy coupled with small overall bundle size is desired. This heat shrinkable tube is made of fluoropolymer and compatible with steam (limited cycles), gamma, ETO and dry-heat sterilization.



Product facts of MT3000 medical tubes

- 2:1 shrink ratio
- Very-thin-wall insulation
- Excellent resistance to a variety of fluids
- Manufactured to ISO 10993 standards
- Registered with the FDA: MAF-472
- Double bagged
- Compatible to sterilization

Sizes in mm

Part Number	Inside diameter		Wall thickness		Colour
	As supplied	After heating	Minimum	Maximum	
MT3000-3/64-0-SP	1.17	0.58			
MT3000-1/16-0-SP	1.60	0.79	0.2 +/- 0.05	0.31 +/- 0.08	Black
MT3000-3/32-0-SP	2.36	1.17	0.2 +/- 0.05	0.31 +/- 0.08	Black
MT3000-1/8-0-SP	3.18	1.58	0.2 +/- 0.05	0.31 +/- 0.08	Black
MT3000-3/16-0-SP	4.75	2.36	0.2 +/- 0.05	0.31 +/- 0.08	Black
MT3000-1/4-0-SP	6.35	3.18	0.28 +/- 0.08	0.38 +/- 0.1	Black
MT3000-3/8-0-SP	9.53	4.75	0.28 +/- 0.08	0.38 +/- 0.1	Black
MT3000-1/2-0-SP	12.7	6.35	0.28 +/- 0.08	0.38 +/- 0.1	Black

(Other colours or sizes on request)

Standard Colour

Colour	Black
Ordering Code	0

Property	Unit	Requirement	Test Method
Physical			
Dimensions*	Inches (mm)	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 (MPa)	4000 minimum (27.6)	ASTM D 2671, 20"/minute
Ultimate elongation*	Percent	300 minimum	
Secant modulus* (expanded)	Psi (MPa)	50,000 maximum (345)	ASTM D 2671
Heat resistance 168 hours at 250 +/- 5°C (482°F) Followed by test for: Ultimate elongation			ASTM D 2671, 20"/minute
	Percent	250 minimum	
Electrical			
Dielectric strength	Volts/mil (volts/mm)	500 minimum (19.680)	ASTM D 2671
Dielectric withstand 3000V, 60Hz	Sec	60 minimum	ASTM D 2671
Chemical			
Fluid resistance 24 hours at 23 +/-3°C (77 +/-5°F) Isopropyl alcohol 5% saline solution Disinfectant Followed by tests for:			ASTM D 2671
Dielectric strength	Volts/mil (volts/mm)	400 minimum (15.760)	
Tensile strength	Psi (MPa)	3500 minimum (24.1)	
Heavy metals analysis Cadmium Mercury Lead Bismuth Antimony	PPM	1 maximum (total of all metals)	USP XXI Physiochemical tests-plastic (Note 1)

* Denotes lot acceptance test

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