



MEDICAL TUBING SOLUTIONS

MT-PBX (D*/D*) DUAL WALL HEAT SHRINK TUBING

KEY FEATURES

- Up to 4:1 shrink ratio
- 72D and 63D Shore Hardness available
- Custom sizes and colors available upon request
- Custom wall thickness combination of inner and outer layers
- Crosslinked outer layer with a flowable inner layer
- Adhesive lined option
- Bondable to etched PTFE
- Excellent electrical insulation properties
- Radiopaque options
- Can withstand repeated autoclave sterilization; sterilization by Gamma Radiation, Ethylene Oxide, steam, and/or dry-heat
- ISO 10993 Biocompatibility tested
- RoHS Compliant

DESCRIPTION

Dual-wall heat shrink tubing from TE Connectivity offers an innovative new catheter assembly method of consolidating tubing layers. The outer layer will shrink, and the inner layer will flow and bond into the braid, adhering to the PTFE liner. The dual wall tubing eliminates the need for a process aid/fusing sleeve such as FEP, which can reduce cost, improve yield and save time. MT-PBX tubing has a predetermined Shore D Durometer and is cross-linked by irradiation.

INSTALLATION TEMPERATURE

- Minimum Full Recovery Temperature: 190°C (374°F)

SPECIFICATIONS & APPROVALS

- ASTM D 2671
- ISO 10993 tests: ISO MEM Elution, Acute Systemic Toxicity, Intracutaneous Reactivity, GP Maximization Sensitization and Hemolysis (ASTM F756 Direct Contact)

ELECTRICAL

- Dielectric strength: 500 V/mil (19.7 kV/mm) minimum
- Dielectric withstand 3000V, 60 Hz: 60 sec. minimum

MECHANICAL

- Longitudinal change: +0 to -10% maximum
- Tensile strength: 5000 psi minimum
- Ultimate elongation: 200% minimum
- Hardness: 63-72 Shore D

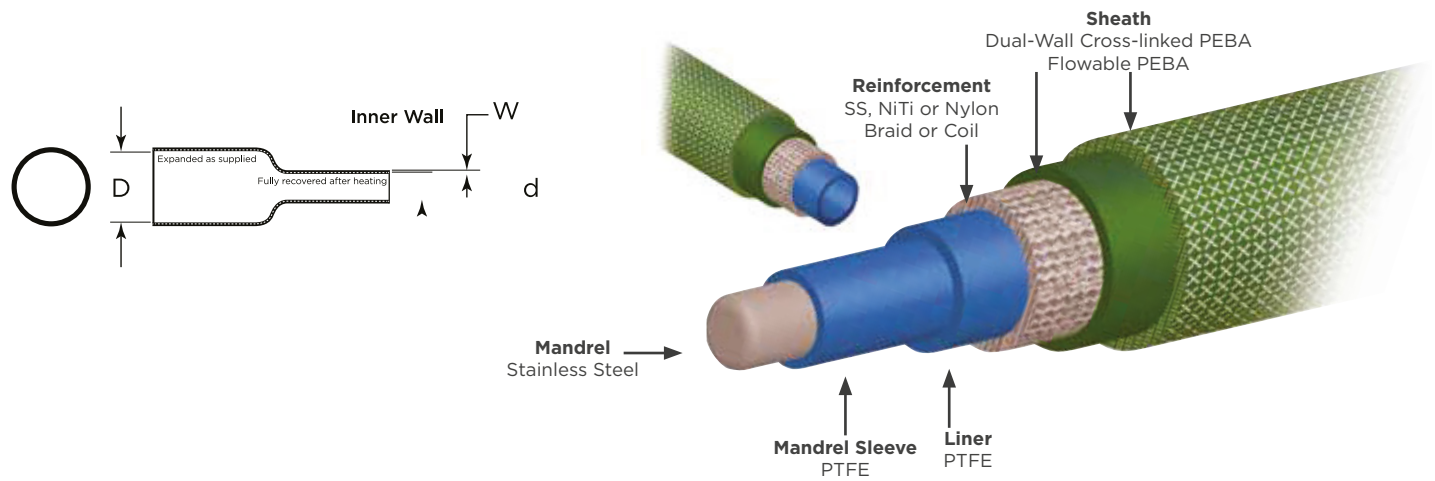
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TABLE 1: DIMENSIONS

Description	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.
MT-PBX72/72-040-020-006-*	0.040	1.02	0.020	0.51	0.005	0.13	0.007	0.18	0.006	0.15
MT-PBX72/72-063-032-006-*	0.063	1.60	0.032	0.81	0.005	0.13	0.007	0.18	0.006	0.15
MT-PBX72/72-093-047-008-*	0.093	2.36	0.047	1.19	0.007	0.18	0.009	0.23	0.008	0.20
MT-PBX72/72-100-050-008-*	0.100	2.54	0.050	1.27	0.007	0.18	0.009	0.23	0.008	0.20
MT-PBX72/72-125-063-008-*	0.125	3.18	0.063	1.60	0.007	0.18	0.009	0.23	0.008	0.20
MT-PBX72/72-188-094-008-*	0.188	4.77	0.094	2.38	0.007	0.18	0.009	0.23	0.008	0.20
MT-PBX72/72-250-125-010-*	0.250	6.35	0.125	3.17	0.008	0.20	0.012	0.30	0.010	0.25

*Outer wall/inner wall evenly distributed.

PRODUCT DIMENSIONS



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ORDERING INFORMATION

Color	Clear (-X), Black (-0), Green (-5), Blue (-6)
Size Selection	Size selection would be determined by shaft design and desired final diameter Please contact your local TE Sales Representative for further assistance
Standard Sackaging	In 4-foot (1.2 meter) lengths (-STK), double-bagged
Ordering Description	Specify TE description and color (for example MT-PBX72/72-040-020-006-X-STK) For non-standard sizes please contact your local TE Sales Representative

MT5000	MT5500	MT6000	MT-PBX (D*)	MT-PBX (D*/D*)	FEP	MT-LWA
2:1	2:1	4:1	3:1	3:1	Up to 1.6:1	2:1 or 3:1
Polylefin	Polylefin	Polylefin	PEBA	PEBA	Fluoropolymer	Polylefin
Flexible	Very Flexible	Flexible	Flex-Rigid*	Flex-Rigid*	Semi-Rigid	Flexible
110°C	110°C	110°C	190°C	190°C	210°C	110°C
Single Wall	Single Wall	Single Wall	Single Wall	Dual Wall	Single Wall	Single Wall

	MT1000	MT2000	MT3000
Shrink Ratio	2:1	2.5:1	2:1
Material	Fluoropolymer	Polyolefin	Fluoropolymer
Flexibility	Semi-Rigid	Semi-Rigid	Flexible
Temperature (Full Rec)	175°C	140°C	150°C
Wall	Single Wall	Single Wall	Single Wall

* = Shore D Durometer dependent

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