

Medical Tubing Solutions

Alterra MT-PBX (D*/D*)
Dual Wall Heat Shrink Tubing



Altera MT-PBX (D*/D*) Medical Dual Wall Heat Shrink Tubing



Key Features

Up to 3:1 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 Biocompati-
bility 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

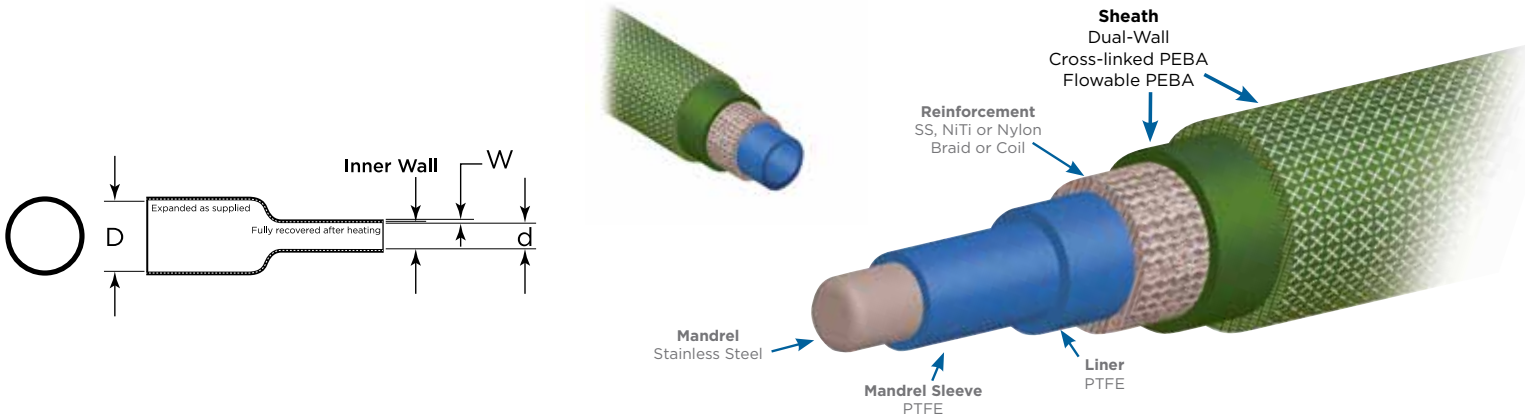
Altera TUBING LINE

	MT 1000	MT 2000	MT 3000
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

Altera MT-PBX (D*/D*) Medical Dual Wall Heat Shrink Tubing

PRODUCT 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.

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 packaging	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.

MT 5000	MT 5500	MT 6000	MT-PBX (D*)	MT-PBX (D*/D*)	MT-FEP	MT-LWA
2:1	2:1	4:1	3:1	3:1	Up to 1.6:1	2:1 or 3:1
Polyolefin	Polyolefin	Polyolefin	PEBA	PEBA	Fluoropolymer	Polyolefin
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

www.te.com/medical

USA 1-800-468-2023
Canada 1-905-470-4425
Mexico 1-800-733-8926
Central America 52 55 1106 0800
South America 54 11 4733 2200
United Kingdom/Ireland 49 896 089 184
Germany/Switzerland/Austria 49 6151 607 1999
Europe/Middle East/Africa 44 800 267 666
China 86 400 860 6670
Japan 81 44 844 8041
Korea 82 2 3415 4543
Singapore 65 659 05300



800.633.6339
www.lapptannehill.com

www.te.com

Tyco Electronics Corporation and its Affiliates in the TE Medical business unit of the TE Connectivity Ltd. family of companies (collectively "TE") reserves the right to change or update, without notice, any information contained herein; to change, without notice, the design, construction, materials, processing or specifications of any products; and to discontinue or limit production or distribution of any products.

Biocompatibility testing of TE Medical products related to certain requirements of ISO Standard 10993 cannot assure the biocompatibility of final or intermediate products made from TE Medical products or the suitability of such products for their use in medical applications, i.e., the test data cannot be used to conclude that any medical devices manufactured from TE Medical products meet the requirements of ISO Standard 10993. It is the sole responsibility of the manufacturer of final end-use (and finished) products to conduct all necessary tests (including biocompatibility tests) and inspections and to evaluate the final product under actual end-use requirements.

TE Connectivity, TE connectivity (logo) and Altera are trademarks.

© 2014 TE Connectivity. All rights reserved.

LT_114-0567-00 06/14

