



# Heat Shrink Tubing MDT

## Medium-Duty, Polyolefin

### Product description

3M™ Heat Shrink Tubing MDT can offer increased flexibility in combination with excellent abrasion, corrosion and environmental resistance properties and data meets AMS-DTL-23053/15\*, Class 2.

Uncoated product (without sealant) is available on special order. MDT medium-duty tubing is designed to provide reliable performance as well as excellent mechanical and environmental protection. These flame-retardant products combine the important advantages of easy handling and installation with maximum operating reliability and system protection. MDT tubing comes with a factory-applied sealant. This sealant is a heat-activated thermoplastic material that remains soft and flexible over long

periods under adverse environmental conditions. During heating the sealant softens, bonds to underlying surfaces and fills small voids that might be present. When cool, the sealant forms a barrier against water, moisture, dirt and other environmental contaminants.

### Typical applications

MDT tubing installs easily and has shrink ratios to accommodate effective insulating and sealing over large transitions, splices and battery cables.

### Standard color

All sizes available in black. MDT-0400, -0800 and -1100 tubing are also available in red.

### Standard packaging

Four-foot lengths. Other lengths are available subject to special quotation.

### Ordering information

Order MDT tubing by product name, size equivalent to the expanded inside diameter, package type and color. Always order the largest size that will shrink snugly over the component to be covered. *Example: MDT-1100-48A tubing, 4 ft., black.*

### Typical Properties

Applicable Specification – SAE-AMS-DTL-23053/15,** Class 2; ABS					
<b>Physical</b>		(4 hrs. @ 225°C)	cracking, flowing	<b>Chemical</b>	
Tensile Strength	2400 PSI	*Low Temperature Flexibility	No cracking	Corrosive Effect	Non-corrosive
Ultimate Elongation	475%	(4 hrs. @ -55°C)		Solvent Resistance	
Longitudinal Change	+1, -10%	Flammability	Self-extinguish	Tensile Strength	1500 PSI
Secant Modulus	14,000 PSI	<b>Electrical</b>		Dielectric Strength	200 V/mil
Specific Gravity	1.28	Dielectric Strength	500 V/mil (60 mils)	Water Absorption	0.2%
*Heat Aging	7 days @ 175°C	Volume Resistivity	10 <sup>14</sup> ohm-cm	Fungus Resistance	Non-nutrient
	Elongation 225%				
*Heat Shock	No dripping,	Technical information provided consists of typical product data and should not be used for specification purposes. Unless otherwise noted, all tests are performed at room temperature.			

\* Outer wall only.

\* Formerly MIL-23053/15 and MIL-DTL-23053/15

### Standard Sizes and Dimensions (without adhesive)

Part Number	Cable Range	Expanded I.D. (Minimum) in. (mm)	Recovered I.D. (Maximum) in. (mm)	Recovered Outer Wall Thickness (Nominal) in. (mm)	Length in.	Std. Pkg. Pieces/ Carton	Color
MDT-0400-48A	#12 - #6 AWG	.40 (10,2)	.15 (3,8)	.09 (2,3)	48	20	Red and Black
MDT-0800-48A	#8 - #3 AWG	.80 (20,3)	.22 (5,6)	.10 (2,5)	48	20	Red and Black
MDT-1100-48A	#2 - 2/0 AWG	1.10 (27,9)	.37 (9,4)	.10 (2,5)	48	20	Red and Black
MDT-1300-48A	#1 - 4/0 AWG	1.30 (33,0)	.43 (10,9)	.10 (2,5)	48	15	Black Only
MDT-1500-48A	1/0 - 250 MCM	1.50 (38,1)	.50 (12,7)	.10 (2,5)	48	20	Black Only
MDT-1700-48A	4/0 - 400 MCM	1.70 (43,2)	.60 (15,2)	.10 (2,5)	48	20	Black Only
MDT-2000-48A	300 - 500 MCM	2.00 (50,8)	.75 (19,1)	.10 (2,5)	48	15	Black Only
MDT-3000-48A	600 - 1250 MCM	3.00 (76,2)	1.00 (25,4)	.12 (3,0)	48	15	Black Only
MDT-4300-48A	1000 - 2500 MCM	4.30 (109,2)	1.50 (38,1)	.15 (3,8)	48	10	Black Only