



Heat Shrink Tubing HDT

Heavy-Duty, Polyolefin

Product description

3M™ Heat Shrink Tubing HDT is designed to provide reliable performance as well as excellent mechanical and environmental protection. This flame-retardant product combines the important advantage of easy handling and installation with maximum operating reliability and system protection. HDT 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.

Heavy-duty tubing is fabricated from specially formulated cross-linked polyolefin, providing long-term environmental protection. The tubing is also highly chemical, abrasion and split resistant. Meets AMS-DTL-23053/15**, Class 1.

Uncoated product (without sealant) is available on special order.

Standard color

All sizes available in black. HDT-0300, -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 HDT 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: HDT-1100-48A tubing, 4 ft., black.*

Typical Properties

Applicable Specification – SAE-AMS-DTL-23053/15**, Class 1; ABS					
Physical		Electrical		Chemical	
Tensile Strength	2400 PSI	Dielectric Strength	500 V/mil (60 mils)	Corrosion Effect	Non-corrosive
Ultimate Elongation	475%	Volume Resistivity	10 ¹⁴ ohm-cm	Solvent Resistance	
Longitudinal Change	+1, -10%			Tensile Strength	1500 PSI
Secant Modulus	14,000 PSI			Dielectric Strength	200 V/mil
Specific Gravity	1.28			Water Absorption	0.02%
*Heat Aging	7 days @ 175°C			Fungus Resistance	Non-nutrient
	Elongation 225%				
*Heat Shock	No dripping,	Technical information provided consists of typical product data and should not be used for			
(4 hrs. @ 225°C)	cracking, flowing	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.		Recovered I.D.		Recovered Outer Wall Thickness		Length in.	Std. Pkg. Pieces/ Carton	Color
		in.	(mm)	in.	(mm)	in.	(mm)			
HDT-0300-48A	#14-#8 AWG	.30	(7,62)	.10	(2,5)	.08	(2,0)	48	20	Red and Black
HDT-0400-48A	#12 - #6 AWG	.40	(10,2)	.15	(3,8)	.09	(2,3)	48	20	Red and Black
HDT-0800-48A	#8 - 1/0 AWG	.80	(20,3)	.20	(5,1)	.11	(2,8)	48	20	Red and Black
HDT-1100-48A	#2 - 4/0 AWG	1.10	(27,9)	.37	(9,4)	.12	(3,0)	48	20	Red and Black
HDT-1500-48A	3/0 - 400 MCM	1.50	(38,1)	.50	(12,7)	.17	(4,3)	48	20	Black Only
HDT-2000-48A	250 - 750 MCM	2.00	(50,8)	.65	(16,5)	.17	(4,3)	48	10	Black Only
HDT-3000-48A	600 - 1250 MCM	3.00	(76,2)	1.00	(25,4)	.17	(4,3)	48	10	Black Only
HDT-4500-48A	1500 - 2500 MCM	4.50	(114,3)	1.50	(38,1)	.17	(4,3)	48	5	Black Only
HDT-6000-48A	2.1" - 4.8" O. D.	6.00	(152,4)	1.80	(45,7)	.17	(4,3)	48	5	Black Only
HDT-7000-48A	2.5" - 5.6" O. D.	7.00	(177,8)	2.00	(50,8)	.17	(4,3)	48	5	Black Only