

NST Tubing

Modified Chlorinated Polyolefin (Neoprene®)

Data Sheet

Product Description

3M[™] NST Tubing provides superior cutthrough and abrasion resistance and is unaffected by common fluids and solvents. Resistance to oils is excellent. The tubing maintains flexibility at low temperatures and can be readily marked by hot-stamp and print-wheel methods. When heated in excess of 135°C (275°F) NST Tubing rapidly shrinks to a skintight fit. NSTis rated for continuous operation from −70°C (−94°F) to 121°C (250°F).

Typical Applications

NST Tubing is recommended for applications requiring a tough, highly flexible covering. It is particularly useful for fabrication and repair of flexible harnesses and wire bundles and for covering hydraulic couplings. Its superior mechanical properties and broad operating temperature range make it an ideal choice for jacketing cable harnesses and custom-made cables that must operate in severe environmental conditions.

Shrink Ratio

NST Tubing has a 2:1 shrink ratio. When freely recovered, the tubing will shrink to 50% of its as-supplied internal diameter. The recovered wall thickness is proportional to the degree of recovery.

Standard Color

Black.

Standard Packaging

Spools.

Ordering Information

Order NSTTubing by product name, size equivalent to the expanded inside diameter, package type and color. Always order the largest size that will shink snugly over the component to be covered. When ordering NST Tubing, please indicate the applicable specification required.

Example: NST, 3/16", spools, black.

Standard Sizes and Dimensions

Ordering Size	Expanded I.D. (Minimum)		Recovered I.D. (Maximum)		Recovered Wall Thickness (Nominal)	
	in.	(mm)	in.	(mm)	in.	(mm)
1/8	.125	(3,18)	.072	(1,83)	.030	(0,76)
3/16	.187	(4,75)	.106	(2,69)	.035	(0,89)
1/4	.250	(6,35)	.125	(3,18)	.035	(0,89)
3/8	.375	(9,53)	.187	(4,75)	.040	(1,02)
1/2	.500	(12,70)	.250	(6,35)	.048	(1,22)
5/8	.625	(15,88)	.312	(7,92)	.052	(1,32)
3/4	.750	(19,05)	.375	(6,99)	.057	(1,45)
7/8	.875	(22,23)	.437	(11,10)	.065	(1,65)
1	1.000	(25,40)	.500	(12,70)	.070	(1,78)
1-1/4	1.250	(31,75)	.625	(15,54)	.087	(2,21)
1-1/2	1.500	(38,10)	.750	(19,05)	.095	(2,41)
1-3/4	1.750	(44,45)	.875	(22,23)	.107	(2,72)
2	2.000	(50,80)	1.000	(25,40)	.110	(2,79)
3	3.000	(75,20)	1.500	(38,10)	.125	(3.18)

Typical Properties

Applicable Specification MIL-R-46846, Type I, Class 1; MIL-DTL-23053/1, Class 1, 2; AMS-3623 (SC-X-15112 available on request)

Physical		Electrical	
Tensile Strength 210	00 PSI	Dielectric Strength	800 V/mil
Ultimate Elongation	500%	Volume Resistivity 1	012 ohm-cm
Longitudinal Change +1	, -10%		
Specific Gravity	1.3	Chemical	
Operating Temperature -7	0°C to	Corrosion Resistance	Non-
Range +	·121°C	Corrosion resistance	corrosive
Shrink Temperature	135°C	Fuel & Oil Resistance	
(Min.) (2	275°F)	Solvent Resistance	Good
,	acking	Abrasion Resistance Acids & Alkalis	Excellent
Flammability Self-exti	nguish	Resistance	Excellent

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.

Limited Warranty – 3M expressly warrants that for a period of ninety days from the date of purchase, 3M static control products will be free of defects in materials (parts) and workmanship (labor). Defects occurring during the warranty period will be repaired or products will be replaced at 3M's option and expense, if 3M receives notice during the warranty period. Defective products must be returned to 3M with proof of purchase date. Warranty Exclusions - THE FOREGOING EXPRESS WARRANTYIS MADE IN LIEU OF ALLOTHER PRODUCT WARRANTIES, EXPRESS AND IMPLIED, INCLUDING FITNESS AND MERCHANTIBILITY. The express warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, operator error, or failure to properly maintain, clean, or repair products. Limit of Liability – In no event will 3M or Seller be responsible or liable for special, incidental, or consequential losses or damages, whether based in tort or contract. Fulfillment of 3M's warranty obligations will be Customer's exclusive remedy and 3M's and Seller's limit of liability for any breach of warranty or otherwise. For your nearest distributor or to order, call 1-800-328-1368

Austin, TX 78726-9000 © 3M March 1997

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Heat Shrink Tubing and Sleeves category:

Click to view products by 3M manufacturer:

Other Similar products are found below:

5685710001 CR9960-000 5734012004 607381P039 611112-000 6284592002 CX4711-000 CZ1420-000 D-306-38 770-006S302 770-010Y106W1 770-018S103 770-018S202W1 770-018S205W1 770-020S704W1 770-020S705 MFP-1/4"-Clear MFP-3/64"-Clear 790-3012 MHHT-4-15K2-G-104 8003012003 MIL-LT-1-1/2-4-SP MIL-LT-1-1/2-9-STK MIL-LT-1/2-2-STK MIL-LT-3-0-SP MIL-LT-3/32-0-SP MIL-LT-3/32-6-SP MIL-LT-3/4-4-STK MIL-LT-3/4-6-SP 839602-000 8423-6 FP301-116-48"-Clear FP301-12-6"-Clear FP301-1/4-48"-White-Hdr FP301-18-48"-Black-Hdr FP301-1/8-6"-Black FP301-18-6"-Black-Bulk FP301-316-48"-Blue-Hdr FP301-34-48"-Green-Hdr 912229N002 R280637030 HDT-0300-48A-BLACK HDT-0400-48A-Black HDT-0800-48A-RED HDT1100-48A-BLK HDT1500-48A-BLK HDT-2000-48A-Black RHW-123-1200ADH-0 RHW-70/20-1200/ADH-0 DWP-125-0.450-4-55MM-CS879