



- Dense, Full Coverage Construction
- Resists Gasoline And Engine Chemicals
- Economical And Easy To Install
- Soft, Pliable And Quiet
- Cut And Abrasion Resistant
- Meets Military Specifications A-A-59301



Cut Cleanly  
Hot Knife

Material  
Polyamide Monofilament

Grade  
NMN

Multifilament Thickness  
N/A

Drawing Number  
TF001NM-WD

Put-Ups

Nominal Size	Part #	Wall Thickness ±0.015"	Bulk Spool	Shop Spool	Available Colors	Lbs/100'
1/8"	NMN0.13BK	0.030"	1,000'	225'	Black (BK)	0.33
3/16"	NMN0.19BK	0.030"	1,000'	200'	Black (BK)	0.56
1/4"	NMN0.25BK	0.030"	500'	200'	Black (BK)	0.79
5/16"	NMN0.31BK	0.030"	500'	125'	Black (BK)	0.99
3/8"	NMN0.38BK	0.030"	500'	125'	Black (BK)	1.09
1/2"	NMN0.50BK	0.030"	250'	100'	Black (BK)	1.74
5/8"	NMN0.63BK	0.040"	250'	75'	Black (BK)	2.85
3/4"	NMN0.75BK	0.040"	250'	75'	Black (BK)	3.15
7/8"	NMN0.88BK	0.040"	200'	50'	Black (BK)	4.35
1"	NMN1.00BK	0.050"	200'	50'	Black (BK)	5.15
1 1/4"	NMN1.25BK	0.050"	125'	50'	Black (BK)	5.50
1 1/2"	NMN1.50BK	0.060"	100'	50'	Black (BK)	6.46
1 3/4"	NMN1.75BK	0.060"	100'	50'	Black (BK)	7.73
2"	NMN2.00BK	0.060"	100'	50'	Black (BK)	9.01
2 1/2"	NMN2.50BK	0.060"	100'	50'	Black (BK)	10.32
3"	NMN3.00BK	0.060"	100'	50'	Black (BK)	11.00
<b>TIGHT WEAVE</b>						
3/8"	NMT0.50BK	0.030"	250'	75'	Black (BK)	1.47

Full Coverage, Soft, Supple, Strong And Attractive

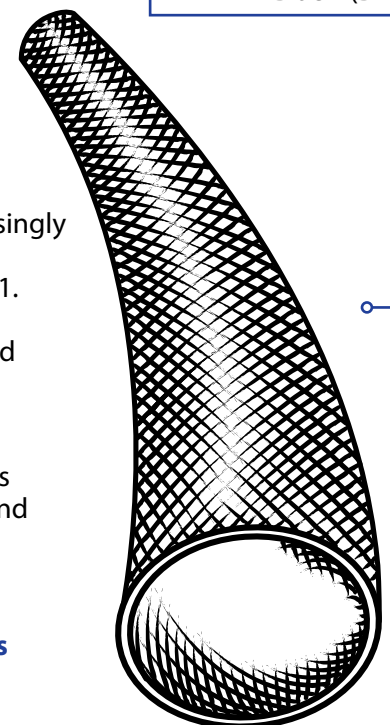
Under the hood or across the floor, NM is the perfect sleeving product for protecting and improving the appearance of wires and cables. NM has been used in military wire harness applications for many years.

NM's fabric-like softness and flexibility hide surprisingly tough specifications. The high coverage sleeving meets or exceeds military specifications A-A-59301. NM is highly resistant to abrasion, cuts, common automotive and marine chemicals, UV damage and vibration. It will not rot or retain moisture.

The wide operating temperature range allows NM to protect delicate wiring in engine compartments and near exhaust systems. NM creates a unique and attractive retro look when installed on a/v cables.

Nylon Multi's qualities make it a viable choice for defense and military applications that call for flexibility, strength and full coverage protection.

Colors Available:  
Black (BK)

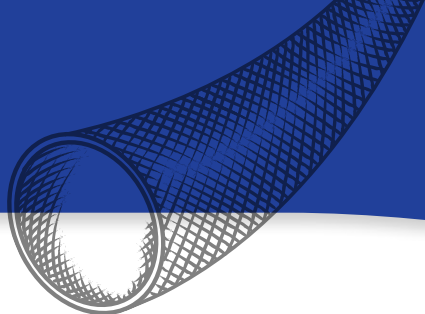


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HALOGEN  
FREE





## ABRASION

**Abrasion Resistance**  
**Extremely High**

**Abrasion Test Machine**  
**Taber 5150**

**Abrasion Test Wheel**  
**Calibrase H-18**

**Abrasion Test Load**  
**500g**

**Room Temperature**  
**70°F**

**Humidity**  
**58%**

**Much Pulling Of Fibers -**  
**Very Visible Wear**  
**20 Test Cycles**

**Wear Pattern Continues**  
**400 Test Cycles**

**Wear Pattern Continues**  
**900 Test Cycles**

**Wear Pattern Continues**  
**1,400 Test Cycles**

**Hole Completely Through**  
**Material Destroyed**  
**3,200 Test Cycles**

**Pre-Test Weight**  
**11,759.5 mg**

**Post-Test Weight**  
**10,990.2 mg**

**Test End Loss Of Mass**  
**Point Of Destruction**  
**769.3 mg**

## CHEMICAL RESISTANCE

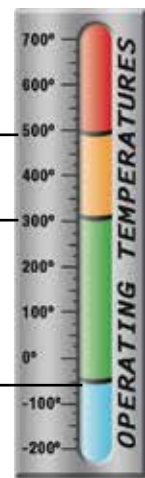
1=No Effect    4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

Aromatic Solvents _____	1
Aliphatic Solvents _____	1
Chlorinated Solvents _____	1
Weak Bases _____	1
Salts _____	1
Strong Bases _____	2
Salt Water 0-S-1926 _____	1
Hydraulic Fluid MIL-H-5606 _____	1
Lube Oil MIL-L-7808 _____	1
De-Icing Fluid MIL-A-8243 _____	1
Strong Acids _____	5
Strong Oxidants _____	5
Esters/Ketones _____	2
UV Light _____	2
Petroleum _____	2
Fungus ASTM G-21 _____	3
Halogen Free _____	Yes
RoHS _____	Yes
SVHC _____	None

**Melt Point**  
*ASTM D-2117*  
**493°F (256°C)**

**Maximum Continuous**  
*MIL-I-23053*  
**302°F (150°C)**

**Minimum Continuous**  
**-49°F (-45°C)**



## PHYSICAL PROPERTIES

Monofilament Diameter _____	NA
<i>ASTM D-204</i>	
Recommended Cutting _____	Hot Knife
Colors _____	1
Wall Thickness _____	.03-.06
Specific Gravity _____	1.14
<i>ASTM D-792</i>	
Moisture Absorption _____	2.5
<i>% ASTM D-570</i>	
Hard Vacuum Data _____	
<i>ASTM E-595 at 10-5 torr</i>	
TML _____	1.10
CVCM _____	.01
WVR _____	.69
Outgassing _____	High
Oxygen Index _____	22
<i>ASTM D-2863</i>	