



- Economical And Easy To Install
- Expands Up To 150%
- Resists Gasoline And Engine Chemicals
- EMI, RFI Protection
- Superior Static Dissipation
- Cut And Abrasion Resistant
- Custom Lengths Available



Cut Cleanly  
Hot Knife

#### Material

**Carbonized Nylon**

#### Grade

**CNN**

#### Monofilament Diameter

**.011"**

#### Drawing Number

**TF001CN-WD**

| Nominal Size | Part #    | Expansion Range |        | Bulk Spool | Shop Spool | Available Colors | Lbs/ 100' |
|--------------|-----------|-----------------|--------|------------|------------|------------------|-----------|
|              |           | Min             | Max    |            |            |                  |           |
| 1/8"         | CNN0.13BK | 3/32"           | 1/4"   | 1,000'     | 225'       | Black            | 0.35      |
| 1/4"         | CNN0.25BK | 1/8"            | 7/16"  | 1,000'     | 200'       | Black            | 0.40      |
| 3/8"         | CNN0.38BK | 3/16"           | 5/8"   | 500'       | 125'       | Black            | 0.60      |
| 1/2"         | CNN0.50BK | 1/4"            | 3/4"   | 500'       | 100'       | Black            | 0.82      |
| 5/8"         | CNN0.63BK | 3/8"            | 1"     | 500'       | 100'       | Black            | 0.96      |
| 3/4"         | CNN0.75BK | 1/2"            | 1 1/4" | 250'       | 75'        | Black            | 1.24      |
| 1"           | CNN1.00BK | 5/8"            | 1 5/8" | 250'       | 65'        | Black            | 1.37      |
| 1 1/4"       | CNN1.25BK | 3/4"            | 1 3/4" | 250'       | 50'        | Black            | 1.65      |
| 1 1/2"       | CNN1.50BK | 1"              | 2 1/2" | 200'       | 40'        | Black            | 2.20      |

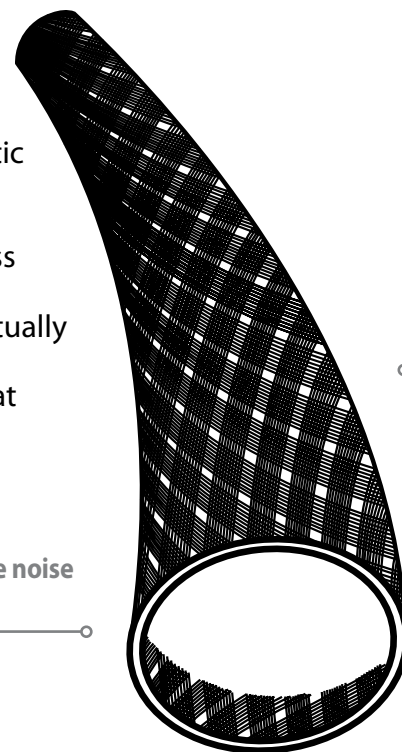
## Conductive Carbon Infused Nylon For Static Protection And Shielding

CN is braided from 11 mil carbonized Nylon® monofilament yarn. CN is designed to protect sensitive wiring from abrasion while shielding it from high frequency noise. Many successful applications have utilized CN for maintaining clean video signals, interference filtering in pro sound environments, and RF filtering on power cables and outputs. CN is also useful in static sensitive environments.

CN utilizes a patented carbonization process which infuses our braided sleeving with a microscopic carbon compound that is virtually indistinguishable from the base material. The result is a strong, long lasting jacket that is ready for the most sensitive applications.

Clean signals are achieved without excessive noise with properly isolated cables and wires.

Colors Available:  
Black (BK)



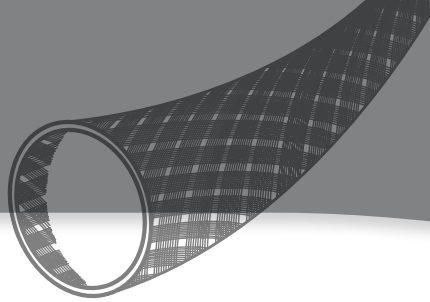
**TECHFLEX**  
Braided Sleeving Products

[www.techflex.com](http://www.techflex.com)

800.323.5140 • 973.300.9242 • fax: 973.300.9409  
104 Demarest Road • Sparta, NJ 07871

Nylon® is a registered trademark of DuPont Corporation.





## ABRASION

**Abrasion Resistance**  
**Medium**

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

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

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

**Room Temperature**  
**73°F**

**Humidity**  
**51%**

**Material Destroyed**  
**800 Test Cycles**

**Pre-Test Weight**  
**8,822.3 mg**

**Post-Test Weight**  
**8,662.5 mg**

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

## CHEMICAL RESISTANCE

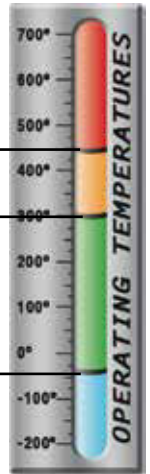
1=No Effect      4=More Affected  
2=Little Effect    5=Severely Affected  
3=Affected

|                            |      |
|----------------------------|------|
| 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               | 4    |
| Strong Oxidants            | 4    |
| Esters/Ketones             | 1    |
| UV Light                   | 2    |
| Petroleum                  | 3    |
| Fungus ASTM G-21           | 2    |
| Halogen Free               | Yes  |
| RoHS                       | Yes  |
| SVHC                       | None |

**Melt Point**  
*ASTM D-2117*  
**482°F (250°C)**

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

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



## PHYSICAL PROPERTIES

|                                |           |
|--------------------------------|-----------|
| Monofilament Diameter          | .011      |
| <i>ASTM D-204</i>              |           |
| Recommended Cutting            | Hot Knife |
| Colors                         | 1         |
| Wall Thickness                 | .028      |
| Tensile Strength (Yarn)        |           |
| <i>ASTM D-2256 Lbs</i>         |           |
| Abrasion                       | Med       |
| Specific Gravity ASTM D-792    | 1.13      |
| Moisture Absorption            | 2.5       |
| <i>% ASTM D-570</i>            |           |
| Hard Vacuum Data               |           |
| <i>ASTM E-595 at 10-5 torr</i> |           |
| TML                            | .19       |
| CVCM                           | .04       |
| WVR                            | .06       |