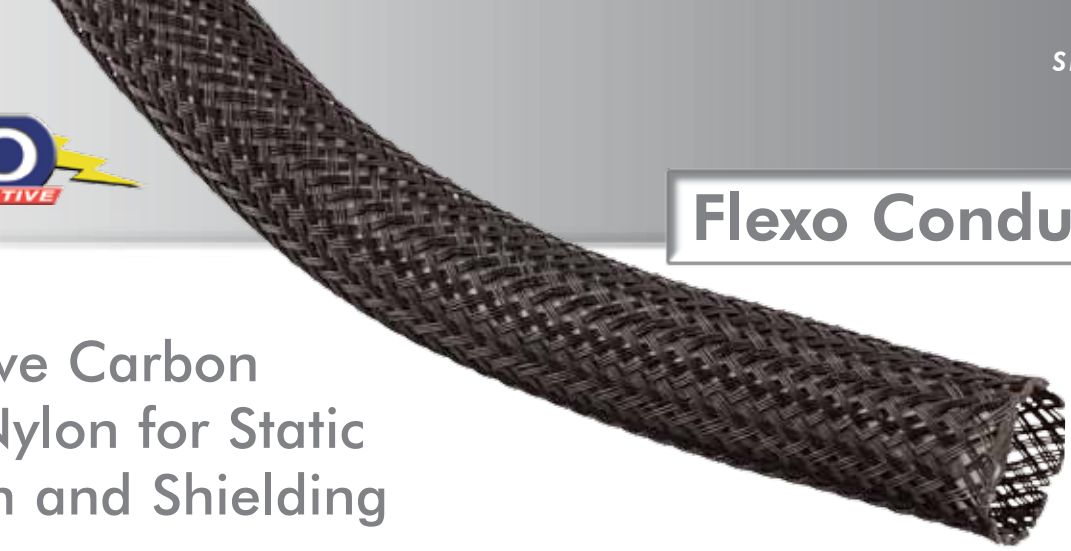
FLEXO CONDUCTIVE

Flexo Conductive



Conductive Carbon Infused Nylon for Static Protection and Shielding

FLEXO CONDUCTIVE (CN) is braided from 11 mil carbonized Nylon monofilament yarn. Flexo Conductive is designed to protect sensitive wiring from abrasion while shielding it from high frequency noise. Many successful applications have utilized this sleeving 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.

Flexo Conductive 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.

- ***EMI, RFI Protection***
- ***ESD Management Solution***
- ***Economical and Easy to Install***
- ***Cut & Abrasion Resistant***
- ***Expands up to 150%***
- ***Halogen Free***
- ***Resists Gasoline and Engine Chemicals***

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

"Techflex assures maximum protection for delicate video and data lines".

Tim Daly - Emmy Award Winning Engineer
InterTest - www.intertestinc.com

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/ 100′
		Min.	Max.	Bulk Spool	Shop Spool		
1/8″	CNN0.13BK	3/32″	1/4″	1,000′	225′	Black (BK)	0.35
1/4″	CNN0.25BK	1/8″	7/16″	1,000′	200′	Black (BK)	0.40
3/8″	CNN0.38BK	3/16″	5/8″	500′	125′	Black (BK)	0.60
1/2″	CNN0.50BK	1/4″	3/4″	500′	100′	Black (BK)	0.68
5/8″	CNN0.63BK	3/8″	1″	500′	100′	Black (BK)	0.96
3/4″	CNN0.75BK	1/2″	1 1/4″	250′	75′	Black (BK)	1.00
1″	CNN1.00BK	5/8″	1 5/8″	250′	65′	Black (BK)	1.20
1 1/4″	CNN1.25BK	3/4″	1 3/4″	250′	50′	Black (BK)	1.65
1 1/2″	CNN1.50BK	1″	2 1/2″	200′	40′	Black (BK)	2.20

RoHS Compliant

SHIELDING
Technical Data Sheet

FLEXO® CONDUCTIVE

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

Put-Ups

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

Material
Carbonized Nylon

Grade
CNN

Monofilament Diameter
.011″

Drawing Number
TF001CN-WD

Conductive Carbon Infused Nylon For Static Protection And Shielding

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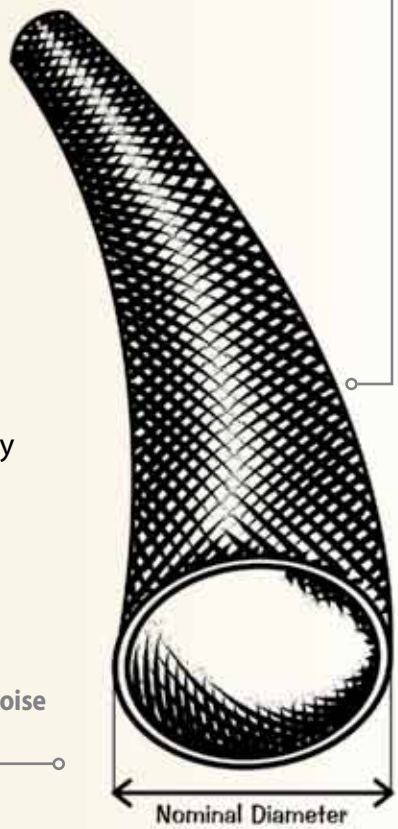
Colors Available:
Black (BK)



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

TECHFLEX
Braided Sleeving Products
www.techflex.com
800.323.5140 • 973.300.9242 • fax: 973.300.9409
104 Demarest Road • Sparta, NJ 07871

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FLEXO® CONDUCTIVE

ABRASION

Abrasion Resistance
Med

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

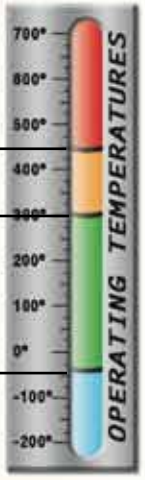
1=*No Effect* 4=*More Affected*
2=*Little Effect* 5=*Severely Affected*
3=*Affected*

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

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