



- Impact Resistant
- Dynamic Cut Through Resistance > 330 lbs. ASTM D 3032-22
- Self Extinguishing SAEJ369
- Prevents UV, Gas, & Chemical Damage
- Automotive Fluid And Chemical Resistance

Nominal Size	Part #	Wall Thickness	Expansion Range		Bulk Spool	Shop Spool	Available Colors	Lbs/100
			Min.	Max.				
3/8"	BBN0.38	.085"	3/8"	1/2"	50'	25'	BK & OR	5.00
1/2"	BBN0.50	.085"	1/2"	9/16"	50'	25'	BK & OR	6.20
5/8"	BBN0.63	.085"	5/8"	11/16"	50'	25'	BK & OR	7.10
3/4"	BBN0.75	.085"	3/4"	7/8"	50'	25'	BK & OR	8.30
1"	BBN1.00	.085"	1"	1 1/16"	50'	25'	BK & OR	11.30
1 1/4"	BBN1.25	.085"	1 1/4"	1 5/16"	50'	25'	BK & OR	12.70



Cut Cleanly  
Hot Knife

**Material**  
Polyester

**Grade**  
BBN

**Wall Thickness**  
.085"

**Drawing Number**  
TF001BBN-WD

### Superior Cut-Through Protection Battle Braid

BATTLE BRAID (BBN) is a heavy duty cut resistant sleeve designed to protect wire and cable assemblies from heavy impacts and punctures. The durable polyester construction absorbs and dissipates energy to offer superior crush and abrasion protection. The orange Battle Braid is the perfect choice for EV manufacturers that require power cable identification for emergency crews in the case of a crash situation. This flexible lightweight sleeve shields brake lines from damage due to flying rocks or debris on industrial and military vehicles and offers excellent abrasion resistance for fuel and hydraulic hoses in extreme environments.

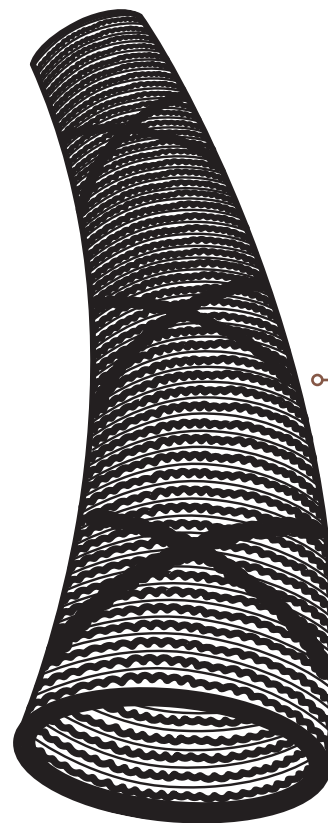
Available as well in black for fuel lines protection and low voltage applications.

Colors Available:



Orange (OR) & Black (BK).

**Colors Available:**  
Orange (OR)  
& Black (BK).



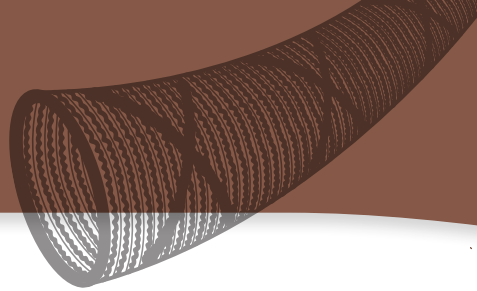
**Application: Automotive, Aerospace, Motorsports, Industrial, Marine.**



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104 Demarest Road • Sparta, NJ 07871





## ABRASION

**Abrasion Resistance**  
**Extreme**

**Abrasion Test Machine**  
**Taber Linear 5750**

**Method**  
**ISO 6722**

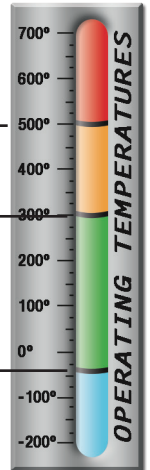
**Abrasion Test Load**  
**714 g**

**Material Destroyed**  
**504,832 Test Cycles**

**Melt Point**  
*ASTM D-2117*  
**482-500°F (250-260°C)**

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

**Minimum Continuous**  
**-40°F (-40°C)**



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## FLAMMABILITY

Rating \_\_\_\_\_ Self Extinguishing  
*SAEJ369*

## IMPACT RESISTANCE TEST

Pass = No Wires Showed Exposure of Copper Conductor

## PHYSICAL PROPERTIES

Recommended Cutting \_\_\_\_\_ Hot Knife & Scissors  
Colors \_\_\_\_\_ 2  
Wall Thickness \_\_\_\_\_ .085"  
Dynamic Cut Through Resistance \_\_\_\_\_ > 330 lbs.  
*ASTM D 3032-22*

## CHEMICAL RESISTANCE

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

Gasoline Fuel \_\_\_\_\_ 1  
Diesel Fuel \_\_\_\_\_ 1  
Brake Fluid \_\_\_\_\_ 1  
Anti-Freeze Coolant \_\_\_\_\_ 1  
20W/50 Motor Oil \_\_\_\_\_ 1  
Transmission Fluid \_\_\_\_\_ 1  
Power Steering Fluid \_\_\_\_\_ 1  
Windshield Washer Fluid \_\_\_\_\_ 1  
5% Salt Water \_\_\_\_\_ 1  
Battery Fluid \_\_\_\_\_ 1