

# **BATTLE BRAID**<sup>®</sup> DYNAMIC CUT THROUGH RESISTANCE > 330 LBS. SELF EXTINGUISHING • IMPACT RESISTANT

BATTLE BRAID<sup>®</sup> (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<sup>®</sup> is the perfect choice for EV manufacturers that require power cable indentification 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. Used in Automotive, Aerospace, Motorsports, Industrial, and Marine.

## **SIZING CHART**

Nominal	Part #	Min	Max	*Put-Ups		Available	Lbs/
Size	Fall #	Expansion	Expansion	М	L	Colors	100'
<sup>3</sup> /8″	BBN0.38	<sup>3</sup> ⁄8″	1⁄2″	25'	50'	2	5.00
1/2"	BBN0.50	1⁄2"	<sup>9</sup> / <sub>16</sub> "	25'	50'	2	6.20
<sup>5</sup> /8"	BBN0.63	<sup>5</sup> ⁄8"	<sup>11</sup> / <sub>16</sub> "	25'	50'	2	7.10
3⁄4"	BBN0.75	<sup>3</sup> ⁄4"	7/8"	25'	50'	2	8.30
1"	BBN1.00	1"	1 <sup>1</sup> / <sub>16</sub> "	25'	50'	2	11.30
1¼"	BBN1.25	1¼"	1 <sup>5</sup> / <sub>16</sub> "	25'	50'	2	12.70

\*Put-Ups: "M" = Shop Spool and "L" = Bulk Spool



## FEATURES

Material	Polyester
Grade	BBN
Wall Thickness	.085"
Drawing Number	TF001BBN-WD
Cutting	Hot Knife

## COLORS



CERTIFICATIONS







#### ABRASION

Abrasion Resistance	EXTREME
Abrasion Test Machine	Taber Linear 5750
Method	ISO 6722
Abrasion Test Load	714 g
Material Destroyed	504,832 Test Cycles

#### **IMPACT RESISTANCE TEST**

PASS = No Wires Showed Exposure of Copper Conductor

## **FLAMMABILITY**

Rating (SAEJ369)

Self Extinguishing

## **OPERATING TEMPERATURES**

Melt Point (ASTM D-2117)	482-500°F / 250-260°C
Maximum Continuous (Mil-I-23053)	302°F / 150°C
Minimum Continuous (Mil-I-23053)	-40°F / -40°C

### **PHYSICAL PROPERTIES**

Monofilament Diameter (ASTM D-204)	NA	
Flammability Rating (SAEJ369)	Self Extinguishing	
Recommended Cutting	Hot Knife	
Colors	2	
Wall Thickness	.085"	
Dynamic Cut Through Resistance	>330 lbs.	
(ASTM D 3032-22)	~350 lb3.	
Specific Gravity (ASTM D-792)		
Moisture Absorption % (ASTM D-570)		
Hard Vacuum Data (ASTM E-595 at 10-5 torr)		
TML		
CVCM		
WVR		
Smoke D-Max (ASTM E-662)		
Outgassing		
Oxygen Index (ASTM D-2863)		

#### **CHEMICAL RESISTANCE**

1=No Effect 2=Little Effect 3=Affecte	ed 4=More Affected 5=Severely 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	
Winshield Washer Fluid	1	
5 % Salt Water	1	
Battery Fluid	1	
RoHS	Yes	
SVHC		

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