



BATTLE BRAID®

DYNAMIC CUT THROUGH RESISTANCE > 330 LBS. SELF EXTINGUISHING · IMPACT RESISTANT

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. Used in Automotive, Aerospace, Motorsports, Industrial, and Marine.

SIZING CHART

Nominal Size	Part #	Min Expansion	Max Expansion	*Put-Ups		Available Colors	Lbs/100'
				M	L		
3/8"	BBN0.38	3/8"	1/2"	25'	50'	2	5.00
1/2"	BBN0.50	1/2"	9/16"	25'	50'	2	6.20
5/8"	BBN0.63	5/8"	11/16"	25'	50'	2	7.10
3/4"	BBN0.75	3/4"	7/8"	25'	50'	2	8.30
1"	BBN1.00	1"	1 1/16"	25'	50'	2	11.30
1 1/4"	BBN1.25	1 1/4"	1 5/16"	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



Black (BK), Orange (OR)

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

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 (ASTM D 3032-22)	>330 lbs.
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)	

FLAMMABILITY

Rating (SAEJ369)	Self Extinguishing
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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

CHEMICAL RESISTANCE

1=No Effect 2=Little Effect 3=Affected 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
Windshield Washer Fluid	1
5 % Salt Water	1
Battery Fluid	1
RoHS	Yes
SVHC	