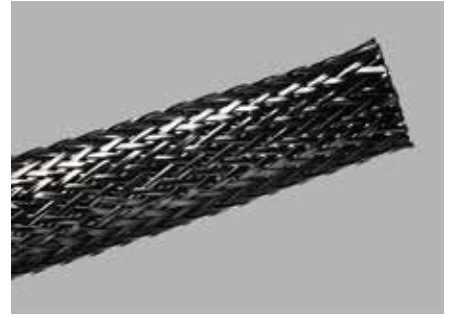


EXPANDABLE BRAIDED SLEEVING

FLEX-TUFF®



Flex-Tuff® PRODUCT HIGHLIGHTS



Maximum Operating
Temperature: 80°C



Superior Abrasion
Resistance



RoHS/REACH Compliant



Halogen Free



UL Temperature Rated
(File #E118600)

Atkins & Pearce's Flex-Tuff® is a heavy-duty expandable sleeving constructed from flat Nylon 6-6 filaments and is our most superior offering for abrasion resistance. The open weave construction allows for complete drainage, prevents condensation, and dissipates heat and moisture. Flex-Tuff® has excellent resistance to hydrocarbons and is rated to 80°C. This sleeving is a great choice for industrial hose, harness, and cable assembly applications with highly abrasive exposure.

Flex-Tuff® is available in a variety of colors to assist in special identification for safety and other needs. Below is a complete list of the standard sizes we offer in this sleeving. Additionally, cut lengths are available upon request.

NOMINAL ID	MAX EXPANSION	WALL THICKNESS
3/8 inch *	1/2 inch	0.04 inch
1/2 inch *	5/8 inch	0.04 inch
3/4 inch *	1 inch	0.04 inch
1 inch *	1-1/4 inch	0.04 inch
1-1/4 inch *	1-1/2 inch	0.04 inch
1-1/2 inch *	1-3/4 inch	0.04 inch
1-3/4 inch *	2 inch	0.04 inch
2 inch *	2-1/2 inch	0.04 inch
2-1/2 inch	3-1/4 inch	0.04 inch
3 inch	3-1/2 inch	0.04 inch
3-1/2 inch	4-1/4 inch	0.04 inch

*Available for online purchase.

For additional information on Flex-Tuff®'s features and color offerings please contact our Sales & Marketing Team via phone or email at the addresses below.

Atkins&Pearce

One Braid Way, Covington, KY 41017 USA

1.800.837.7477 | info@atkinsandpearce.com | www.atkinsandpearce.com

EXPANDABLE BRAIDED SLEEVING

FLEX-TUFF®

Performance Metrics

PROPERTY (TEST)	RESULT
Abrasion (ASTM D-4060)	30,000+ cycles
Low Temperature Flexibility (below freezing)	No cracking or deformation

Thermals

MAX OPERATING TEMPERATURE	MELTING POINT
80°C / 176°F	215°C - 275°C / 419°F - 527°F

Chemical Resistance

	Poor	Fair	Good	Excellent
Degradation by Alcohols	Red	Orange	Yellow	Green
Degradation by Alkali	Red	Orange	Yellow	Green
Degradation by Hydrocarbons	Red	Orange	Yellow	Green
Degradation by Ketones	Red	Orange	Yellow	Green
Degradation by Organic Acids	Red	Orange	Yellow	Green
Degradation by Strong Acids	Red	Orange	Yellow	Green
Degradation by UV Light	Red	Orange	Yellow	Green

Monofilament Properties

SINGLE-STRAND DIAMETER	0.06 inch
DENSITY	1.13 - 1.25 g/cc
SINGLE-STRAND TENSILE STRENGTH	45 lbs.
MOISTURE ABSORPTION	0.30%



CONTACT US!

Our manufacturing facility and office is centrally located in northern Kentucky.



One Braid Way, Covington, KY 41017 USA

1.800.837.7477 | info@atkinsandpearce.com | www.atkinsandpearce.com

LAST REVISED: December 2023 | The suggested application is provided by Atkins & Pearce merely as an additional tool to assist in making an appropriate selection. This is only provided to serve as suggestions of sleeving that may be appropriate based on certain criteria and should not be relied upon as determinative or as a substitute for customer testing. Many variables exist in a sleeve's flexibilities, resistances, and treatment. Final product selection should always be confirmed through the customer's own testing process to determine if a specific product is the correct choice for a particular application. Atkins & Pearce is not responsible for selections made by the customer using any of the reference material provided. For optimal performance in specific systems, we strongly recommend that customers conduct exhaustive tests in their own lab and consider retaining samples for their future internal reference. The importance of product testing and data validation cannot be overstated. As the customer, you and your company are responsible for appropriately testing all Atkins & Pearce product used in your application and for making the final selection based upon meeting appropriate safety and electrical standards. Atkins & Pearce makes no representation or warranty, expressed or implied, at law or in equity, in respect of the information provided, including, without limitation, with respect to merchantability or fitness for any particular purpose, which representations or warranties are hereby expressly disclaimed.