

FLEX-GUARD FPE

Expandable Fire-Retardant Monofilament Sleeving

DESCRIPTION

- Braided sleeving produced from specially formulated flame retardant polyester PET (Polyethylene Terephthalate) monofilament
- Tough yet lightweight protective sleeving
- UL recognized as a VW-1 component for use up to 125°C
- CSA approved and rated for use up to 125°C
- Standard colors: Black with white crisscross tracer strands or White with black crisscross tracer strands



FEATURES

- Demonstrates excellent chemical and fungus resistance
- Provides good mechanical properties with additional coverage
- Resistance to abrasion and cut-through make it ideal for many industrial and electrical applications
- Excellent chemical resistance permits use in harsh fluid environments
- Passes most tests for low flammability, limited flame travel and self-extinguishing requirements
- Open weave construction allows expansion above or below original diameter.
- Easy to apply and slip on quickly over irregular shapes
- Good flexibility at low temperatures allowing easy flexing in any direction
- Can neatly capture a number of different sized items within one length

APPLICATIONS

- Most commonly used over wires, wire bundles and harnesses, cable assemblies, flat ribbon cable, tubing and hoses to provide a tough, durable protection
- Open weave construction allows for complete drainage, prevents condensation and provides for dissipation of heat and moisture
- Ideal for application in machine tools, automatic equipment and robotics where wires and tubes are required to flex freely during operating cycles
- Suitable for exposure to all weather conditions

PROPERTIES	TEST METHOD	PERFORMANCE
Tensile Strength	ASTM D-876	55,000 psi
Elongation	ASTM D-876	25%
Specific Gravity	ASTM D-876	1.31
Moisture Absorption (24 hours)	ASTM D-570	0.08%
Shrinkage @ 180°C		4.2%
Max. Operating Temperature	UL 224	125°C
Melt Temperature	ASTM D-2117	240°C
Low Temperature Flexibility	MIL I 23053-E	-70°C
Flammability	UL 224	VW-1/FR-1
Flexural Modulus 10 ³ psi @ 73°F	ASTM D-790	410
Fungus Resistance	MIL STD 810 (508)	No Growth
Copper Corrosivity	MIL I 23053	No Effect

FLUID RESISTANCE

Testing verifies that there is virtually no effect on the tensile strength or elongation of FLEX-GUARD FPE/TW when exposed to the following fluids: Cleaning Fluid, De-icing Fluid, Fuel Oil, Gasoline, Hydraulic Fluid, Lubricating Oil, Salt Water and Solvents

DIMENSIONS

Size Nominal I.D.	Size Range (inches)	Approx. Weight lbs./1000 ft.	Std. Spool put-up
1/8"	3/32" - 1/4"	2.0	1000 ft.
1/4"	1/8" - 5/16"	3.0	1000 ft.
1/4" 3-ends	1/8" - 5/16"	4.0	1000 ft.
3/8"	1/4" - 1/2"	6.0	500 ft.
1/2"	3/8" - 5/8"	7.5	500 ft.
3/4"	5/8" - 1"	12.5	250 ft.
1"	5/8" - 1-1/2"	14.0	250 ft.
1-1/4"	1-1/8" - 1-3/8"	15.9	250 ft.
1-1/2"	1-3/8" - 1-3/4"	22.0	250 ft.
1-3/4"	1-1/2" - 2-1/4"	27.0	200 ft.
2"	1-1/2" - 3"	34.0	200 ft.
2-1/2"	2" - 3-1/2"	40.0	200 ft.

The information provided above represents average values and is believed to be reliable. Alta Technologies, Inc. makes no warranties as to its accuracy and disclaims any liability in connection with its use. It is provided for general use only and should not be incorporated into any specific specifications.



ALTA TECHNOLOGIES, INC.

P.O. Box 100

Pennington, NJ 08534

(609) 538-9500 Fax: (609) 538-9501

info@altatechinc.com website: www.altatechinc.com

