

# 947 FLEX-GUARD FPE/F

**SERIES** Flame Retardant Fray Resistant Braided PET Monofilament Sleeve

## DESCRIPTION

- Braided sleeving produced from specifically formulated flame retardant polyester PET (Polyethylene Terephthalate)
- Custom braided to resist fraying when scissor cut
- 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

## 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 retained at low temperatures, allows for 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

## DIMENSIONS

PART NUMBERS (COLOR: BLACK)	SIZE NOMINAL ID	SIZE RANGE	APPROX. WEIGHT/1000 FT.	STD. SPOOL PUT-UP
94720125	1/8"	1/8" - 1/4"	4.3 lbs.	500 ft.
94720250	1/4"	3/16" - 3/8"	5.1 lbs.	500 ft.
94720500	1/2"	1/4" - 3/4"	7.9 lbs.	250 ft.
94720750	3/4"	5/8" - 1"	10.3 lbs.	250 ft.
94721250	1-1/4"	1" - 1-1/2"	16.3 lbs.	250 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.

## FLUID RESISTANCE

Testing verifies that there is virtually no effect on the tensile strength and only a slight reduction in elongation (approx. 5%) of FLEX-GUARD FPE/F when exposed to the following fluids: Cleaning Fluid, De-Icing Fluid, Fuel Oil, Gasoline, Hydraulic Fluid, Lubricating Oil, Salt Water and Solvents.

## TESTING

### PROPERTIES

Tensile Strength  
 Elongation  
 Specific Gravity  
 Moisture Absorption (24 hours)  
 Shrinkage @ 180°C  
 Max. Operating Temperature  
 Melt Temperature  
 Low Temperature Flexibility  
 Flammability  
 Flexural Modulus 10<sup>3</sup> psi @ 73°F  
 Fungus Resistance  
 Copper Corrosivity

### TEST METHOD

ASTM D-876  
 ASTM D-876  
 ASTM D-876  
 ASTM D-570  
 UL 224  
 ASTM D-2117  
 MIL I 23053-E  
 UL 224  
 ASTM D-790  
 MIL STD 810 (508)  
 MIL I 23053

### PERFORMANCE

55,000 psi  
 25%  
 1.31  
 0.08%  
 4.2%  
 125°C  
 240°C  
 -70°C  
 VW-1/FR-1  
 410  
 No Growth  
 No Effect



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