

# 2:1 High Shrink Ratio, Flexible, Heat Shrinkable Polyvinylidene Fluoride (PVDF) Tubing



DUNBAR-FK150 is a flexible, thin wall, flame retardant, heat shrinkable polyvinylidene fluoride (PVDF) tube. It is designed for applications requiring outstanding abrasion and cut-through resistance. It reliably protects wires, solder joints, terminals, connections, and components from most industrial fuels, solvents, and chemicals.

**STANDARDS:**

- SAE AS23053/18 Class 2 (Formerly AMS-DTL-23053/18 Class 2)
- Declared Dimensional Life (DDL) – 10 Years
- UL 224: VW-1, 600V, 150°C (File Number: E319303)
- RoHS & REACH Compliant

**PRODUCT FEATURES:**

- Shrink ratio: 50% or more in the radial direction, -10% or less in the axial direction
- Continuous operating temperature: -55°C (-67°F) to 150°C (302°C)
- Thin wall
- High resistance to fuel, chemicals, and oils

## Specification Values

Property		Test Method	Value	
Physical	Unaged	Tensile Strength	Min. 2500 psi	
		Elongation	Min. 300%	
	Aged	Elongation	225°C/168 hrs	Min. 250%
	Fluid Resistance	Tensile Strength	24°C/24 hrs	Min. 2000 psi
		Elongation	6 Fluids	Min. 250%
	Concentricity		ASTM D2671	Min. 70%
	Heat Shock		275°C/4 hrs	No cracks, flowing, or dripping
	Low Temperature Flexibility		-55°C/4 hrs	No cracking
	Specific Gravity		ASTM D792	Max. 2.00
Secant Modulus		ASTM D882	25,000 ~ 100,000 psi	
Electrical	Dielectric Strength		ASTM D2671	Min. 400 Volts/mil
	Volume Resistivity		ASTM D876	Min. 10 <sup>11</sup> Ω · cm
Chemical	Copper Corrosion		160°C/16 hrs	No corrosion
	Fungus Resistance		ASTM G21	No growth
	Water Absorption		ASTM D570	Max. 0.5%
	Flammability		ASTM D2671	Pass

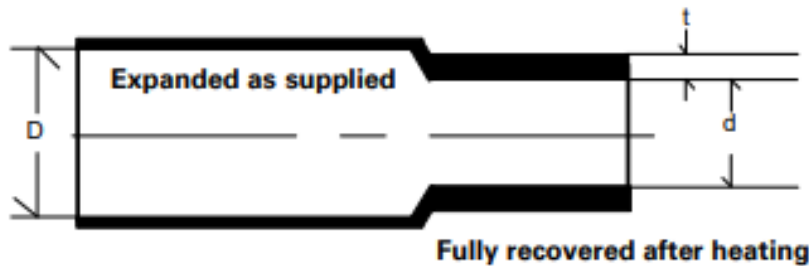
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## DUNBAR – FK150

**2:1 SHRINK RATIO, FLEXIBLE, HEAT SHRINKABLE POLYVINYLIDENE FLUORIDE (PVDF) TUBING**



**Product Dimensions**

**Minimum Shrink Temperature: 125 °C**

Size	Expanded		Recovered				Standard Spool Length
	Internal Diameter (Minimum) (D)		Internal Diameter (Maximum) (d)		Wall Thickness (Minimum) (t)		
	In.	mm	In.	mm	In.	mm	
3/64"	0.046	1.2	0.023	0.6	0.008	0.2	500
1/16"	0.063	1.6	0.031	0.8	0.008	0.2	500
3/32"	0.093	2.4	0.046	1.2	0.008	0.2	500
1/8"	0.125	3.2	0.062	1.6	0.008	0.2	500
3/16"	0.187	4.7	0.093	2.4	0.008	0.2	250
1/4"	0.250	6.4	0.125	3.2	0.009	0.2	250
3/8"	0.375	9.5	0.187	4.7	0.009	0.2	200
1/2"	0.500	12.7	0.250	6.4	0.009	0.2	200
3/4"	0.750	19.1	0.375	9.5	0.014	0.3	100
1"	1.000	25.4	0.500	12.7	0.016	0.4	100

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