

Part # FE3

**High Temperature
Solvent Resistant, Flame Retardant
Flexible Fluoro-Elastomer
2 to 1 Ratio**



Specification Reference	
UL	○
VW-1	○
CSA	○
MIL Spec	● AMS-DTL-23053/13B, MIL-R-46846, Type III, Class 1

Replaces	
Raychem	Viton™(RT-1146)
3M/ECC	VTN-200
Alpha	FIT-650

Description	FE3 is a rubber-like, highly fluid resistant, flame retardant fluoro-elastomer heat-shrinkable tubing with high solvent resistance.
Uses	FE3 is recommended for applications where resistance to aggressive solvents and high temperatures is required. Bundling, harnessing and environmental protection within engine compartments is one such application.
Operating Temp	-55°C, to +200°C, and up to 300°C, for short periods.
Shrink Temp	120°C
Standard Put-up	Spool

	Property (units)	Test Method	Requirements
Physical	Tensile Strength (psi)	ASTM D638	1200 MIN.
	Elongation (%)	ASTM D638	250 MIN.
	Tensile Strength @ 200% elongation (psi)	ASTM D412	2000 MAX.
	Heat shock (300°C, 4 Hrs.)	AMS-DTL-23053	No Cracking
	Heat resistance (250°C, 168 Hrs.) Elongation (%)	ASTM D638	200 MIN.
	Longitudinal change (%)	AMS-DTL-23053	-20 MAX.
	Cold Impact (-40°C)	ASTM D746	No Cracking
Electrical	Dielectric strength (volts/mil)	ASTM D876	200 MIN.
	Volume resistivity (ohm-cm)	ASTM D876	1.0 x 10 ¹¹ MIN
Chemical	Copper mirror corrosion (175°C, 16 Hrs.)	AMS-DTL-23053	No Corrosion
	Water absorption (%)	ASTM D570	0.5 MAX.
	Fluid Resistance (23°C, 24 Hrs.) Tensile Strength (psi)	AMS-DTL-23053	1200 MIN.
	Elongation (%)	AMS-DTL-23053	250 MAX.
	Flammability	AMS-DTL-23053	15 Sec. MAX.
	Shrink Temperature (nominal)		120°C

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Wholesale Pricing on Full Spools/Bags

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Inside Diameter Before Shrinking (minimum)		Inside Diameter After Shrinking (maximum)	Post Shrink Wall Thickness	Full Spool Length	Price:	Color Selection													
mm	inches					mm (inches)	mm (inches)	in feet	per spool	per foot	BK	BR	RD	OR	YL	GN	BL	VI	GY
							black	brown	red	orange	yellow	green	blue	violet	gray	white	clear		
3.2	1/8 0.125	1.5748 (0.062)	0.7874 (0.031)	100	\$1,210.40 \$14.24	●	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	X
4.8	3/16 0.1875	2.3622 (0.093)	0.889 (0.035)	100	\$1,063.35 \$12.51	●	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	X
6.4	1/4 0.250	3.175 (0.125)	0.889 (0.035)	100	\$966.45 \$11.37	●	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	X
9.5	3/8 0.375	4.7498 (0.187)	0.889 (0.035)	100	\$1,190.85 \$14.01	●	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	X
12.7	1/2 0.500	6.350 (0.250)	0.889 (0.035)	100	\$1,496.00 \$17.60	●	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	X
19.1	3/4 0.750	9.525 (0.375)	1.0668 (0.042)	100	\$2,144.55 \$25.23	●	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	X
25.4	1 1.000	12.70 (0.500)	1.2446 (0.049)	100	\$3,031.10 \$35.66	●	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	X

Other sizes available

Lead Time: 1 day	Lead Time: up to 50 days	Lead Time: up to 100 days	Lead Time: up to 200 days	Not Possible

The above lead time guidelines are estimated only. They may be longer (not usually) or they may be shorter (typically). Regarding products with 100 & 200 day lead time; pricing may vary, and a minimum order with deposit may be required. Oh... and by the way, everything can change without notice and/or liability.