

Part # F4

**Ultra Thin Wall
2 to 1 Ratio
Flexible Polyolefin**



	Specification Reference
UL	● UL 224 125°C, 150V
VW-1	● VW1, File E48762 YDPU2, Cat. No. SUMITUBE F4
CSA	○
MIL Spec	○

Replaces
Raychem Versa-Thin

Description	F4 is a very flexible, thin wall, flame retardant, heat-shrinkable polyolefin tubing that is UL recognized VW-1.
Uses	F4 is recommended for all general purpose applications for flame retardant tubing such as insulating, color coding, bundling or environmental protection, especially when space is at a premium and low shrink temperatures are required.
Operating Temp	-55°C, to +125°C
Shrink Temp	90°C
Standard Put-up	Spool
Marking	Sumitube F4 is surface printed with recognized UL marking as follows: "SUMITOMO SUMITUBE F4 125°C, VW-1"

	Property (units)	Test Method	Requirements
Physical	Tensile Strength (psi)	UL 224	1500 MIN.
	Elongation (%)	UL 224	200 MIN.
	Specific gravity	ASTM D792	1.35 MAX.
	Low temp. flex (-55°C)	AMS-DTL-23053	No Cracking
	Heat resistance, (158°C, 168 Hrs.) Elongation (%)	UL 224	100 MIN.
	Secant modulus (psi)	ASTM D882	25000 MAX.
	Deformation (% @ 125°C, 1 hr)	UL 224	50 MAX.
	Longitudinal change (%)	AMS-DTL-23053	-15 min.
Electrical	Dielectric strength (volts/mil)	UL 224	2500 MIN.
	Volume resistivity (ohm-cm)	UL 224	1.0 x 10 ¹⁴ MIN
Chemical	Corrosion	UL 224	No Corrosion
	Copper mirror stability (158°C, 168 Hrs.)		
	Elongation (%)	UL 224	100 MIN.
	Water absorption (%)	ASTM D570	0.5 MAX.
	Fluid Resistance (23°C, 24 Hrs.) Tensile Strength (psi)	MIL-DTL-23053	1000 MIN.
	Flammability	UL 224 VW-1	Pass
	Shrink Temperature (nominal)		90°C

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Inside Diameter Before Shrinking (minimum)		Inside Diameter After Shrinking (maximum)	Post Shrink Wall Thickness	Full Spool Length	Price:	Color Selection												
						per spool	per foot	BK	BR	RD	OR	YL	GN	BL	VI	GY	WH	CL
mm	inches	mm (inches)	mm (inches)	in feet			black	brown	red	orange	yellow	green	blue	violet	gray	white	clear	
1.2	3/64 0.0469	0.5842 (0.023)	0.254 (0.010)	1000	\$408.00 \$0.48	▶	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	✘
1.6	1/16 0.0625	0.7874 (0.031)	0.254 (0.010)	1000	\$416.50 \$0.49	▶	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	✘
2.4	3/32 0.0938	1.1684 (0.046)	0.3048 (0.012)	500	\$221.00 \$0.52	▶	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	✘
3.2	1/8 0.125	1.5748 (0.062)	0.3048 (0.012)	500	\$238.00 \$0.56	▶	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	✘
4.8	3/16 0.1875	2.3622 (0.093)	0.3048 (0.012)	200	\$115.60 \$0.68	▶	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	✘
6.4	1/4 0.250	3.175 (0.125)	0.3556 (0.014)	200	\$144.50 \$0.85	▶	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	✘
9.5	3/8 0.375	4.7498 (0.187)	0.3556 (0.014)	200	\$161.50 \$0.95	▶	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	✘
12.7	1/2 0.500	6.350 (0.250)	0.3556 (0.014)	200	\$183.60 \$1.08	▶	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	✘
19.1	3/4 0.750	9.525 (0.375)	0.4318 (0.017)	200	\$243.10 \$1.43	▶	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	✘
25.4	1 1.000	12.700 (0.500)	0.508 (0.020)	200	\$365.50 \$2.15	▶	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	✘
31.8	1-1/4 1.250	15.875 (0.625)	0.508 (0.020)	200	\$486.20 \$2.86	▶	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	◉	✘

				
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.