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## 3M™ Heat Shrink Thin-Wall Tubing FP-301



3M™ Heat Shrink Tubing FP-301 offers an outstanding balance of electrical, physical and chemical properties for a variety of industrial and military applications. FP-301 tubing is split resistant, mechanically tough, easily marked and resists cold flow.

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**Specifications**

<b>Agency Approvals</b>	CSA, CSA, UL Recognized
<b>China RoHS - Below MCV</b>	Undetermined, Yes
<b>Color</b>	White, Blue, Red, Black, Green, Yellow, Clear
<b>Dielectric Strength</b>	900 Volt
<b>Elongation</b>	400 %
<b>EU RoHS Compliant</b>	Undetermined, Yes
<b>Expanded Inner Diameter</b>	1.25 Inch, 0.75 Inch, 0.375 Inch, 0.187 Inch, 0.093 Inch, 1 Inch, 0.063 Inch, 0.5 Inch, 0.125 Inch, 3 Inch, 4 Inch, 0.25 Inch, 1.5 Inch, 2 Inch, 0.046 Inch
<b>Expanded Inner Diameter (metric)</b>	76.2 mm, 2.36 mm, 19.05 mm, 1.17 mm, 9.53 mm, 50.80 mm, 38.10 mm, 1.59 mm, 101.6 mm, 12.70 mm, 3.18 mm, 25.40 mm, 4.75 mm, 6.35 mm
<b>Family</b>	3M™ Heat Shrink Thin-Wall Tubing FP-301
<b>Flame Retardant</b>	Yes, No
<b>Flammability Rating</b>	No Flame Rating, UL 224 All Tubing Flame Test
<b>Length</b>	200 Linear Foot, 50 Linear Foot, 1000 Linear Foot, 6 Inch, 48 Inch, 4 Linear Foot, 100 Linear Foot, 300 Linear Foot, 150 Linear Foot, 6 Linear Foot, 12 Inch, 250 Linear Foot, 500 Linear Foot
<b>Material</b>	Flexible Polyolefin, Polyolefin
<b>Mil Spec</b>	AMS-DTL-23053/5, Class 2, AMS-DTL-23053/5, Class 1
<b>Minimum Expanded Tubing I. D.</b>	3 Inch, 4 Inch, 1 Inch, 2 Inch
<b>Non-Corrosive</b>	Yes
<b>Operating Temperature (Celsius)</b>	-55 to 135 Degrees Celsius

<b>Operating Temperature (Fahrenheit)</b>	-67 to 275 Degree Fahrenheit
<b>Product Form</b>	6 in (15.24 cm) pieces, 48 in (1.22 m) sticks with header label, 48 in (1.22 m) sticks
<b>Recovered Inner Diameter</b>	0.75 Inch, 0.13 Inch, 0.375 Inch, 0.187 Inch, 0.093 Inch, 1 Inch, 0.02 Inch, 0.062 Inch, 0.31 Inch, 0.19 Inch, 0.63 Inch, 0.031 Inch, 0.023 Inch, 0.5 Inch, 0.06 Inch, 0.125 Inch, 3 Inch, 0.25 Inch, 1.5 Inch, 0.05 Inch, 2 Inch, 0.046 Inch
<b>Recovered Inner Diameter (metric)</b>	25.4 mm, 38.1 mm, 3.18 mm, 2.36 mm, 12.7 mm, 0.58 mm, 6.4 mm, 4.75 mm, 19.1 mm, 1.57 mm, 1.17 mm, 0.8 mm, 9.52 mm, 50.8 mm
<b>Shrink Ratio</b>	2:1
<b>Size</b>	0.50 Inch, 0.1875 Inch, 0.75 Inch, 0.375 Inch, 1.50 Inch, 0.125 Inch, 0.25 Inch, 0.0625 Inch, 3.00 Inch, 2.00 Inch, 0.0938 Inch, 1.00 Inch, 0.0469 Inch, 4.00 Inch
<b>Size (metric)</b>	76.2 mm, 12.7 mm, 4.75, 19.05 mm, 1.17 mm, 50.8 mm, 1.59 mm, 25.4 mm, 101.6 mm, 3.18 mm, 38.1 mm, 3.18, 2.38 mm, 6.35 mm, 4.75 mm, 9.52 mm
<b>Tensile Strength</b>	2400 Pound-Force Per Square Inch
<b>Trademark</b>	3M
<b>Tubing Type</b>	Single (Thin) Wall
<b>UL Bug Temperature (Celsius)</b>	125 Degrees Celsius
<b>UL Bug Temperature (Fahrenheit)</b>	257 Degrees Fahrenheit
<b>UL Bug Voltage</b>	600 Volt
<b>UL File Number</b>	E-39100

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