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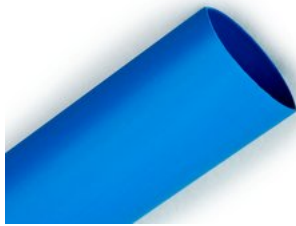
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# 3M™ Heat Shrink Thin-Wall Tubing FP301-1-48"-Black-Hdr-5 Pcs, 48 in Length sticks with header label, 5 pieces/case

3M ID 80611473424 UPC# 00051128596814 Part Number FP301-1-48"-Black-Hdr-5 Pcs

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3M™ FP-301 Heat Shrink Tubing is a general-purpose, thin-wall tubing that provides a balance of electrical, physical and chemical properties, making it perfect for industrial and military applications. This tubing has a 2:1 shrink ratio and provides flame-retardant insulation for 600V-rated applications. It has a flexible polyolefin construction that offers moisture-seal protection.

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- Balances electrical, physical and chemical properties for various industrial and military applications
- Offers shrink-fit protection and strain relief of wires, solder joints, terminals and connections
- Suitable for lightweight wire-harness covering, fire-resistant covering, wire marking, wire bundling and component packaging
- Expanded I.D. of 1 in
- 4-ft stick with a header label
- Made of black flexible polyolefin
- Withstands temperatures of -67 to 275 degrees F (-55 to 135 degrees C)
- Flame-retardant tubing is rated for 600V applications
- UL Listed, SAE-AMS-DTL-23053/5, Class 1, 2, AMS-3636, AMS-3637, ABS, CSA Certified and RoHS 2011/65/EU Compliant

**Overview** | **Documents**

3M™ Heat Shrink Tubing FP-301 is color-coded for quick and easy identification of the wire. This split-resistant, flame-retardant tubing is used as shrink-fit, electrical insulation over cable splices or terminations. The high-expansion-ratio tubing is mechanically tough, easily markable and resists cold flow. It is perfect for lightweight wire-harness covering, fire-resistant covering, wire marking, wire bundling and component packaging. It withstands temperatures of -67 to 275 degrees F (-55 to 135 degrees C). UL Listed, SAE-AMS-DTL-23053/5, Class 1, 2, AMS-3636, AMS-3637, CSA Certified and RoHS 2011/65/EU Compliant.

**Specifications**

<b>Agency Approvals</b>	CSA, UL Recognized
<b>Brand</b>	3M
<b>Color</b>	Black
<b>Expanded Inner Diameter</b>	1 Inch
<b>Expanded Inner Diameter (metric)</b>	25.40 mm
<b>Flame Retardant</b>	Yes
<b>Length</b>	48 Inch
<b>Material</b>	Polyolefin
<b>Minimum Expanded Tubing I. D.</b>	1 Inch
<b>Operating Temperature (Celsius)</b>	-55 to 135 Degrees Celsius
<b>Operating Temperature (Fahrenheit)</b>	-67 to 275 Degree Fahrenheit
<b>Product Form</b>	48 in (1.22 m) sticks with header label
<b>Recovered Inner Diameter</b>	0.5 Inch
<b>Recovered Inner Diameter (metric)</b>	12.7 mm
<b>RoHS 2011/65/EU Compliant</b>	Yes

<b>RoHS EU Comments</b>	RoHS 2011/65/EU compliant without exemption <a href="#">*Important RoHS information</a>
<b>Shrink Ratio</b>	2:1
<b>Size</b>	1.00 Inch
<b>Size (metric)</b>	25.4 mm
<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

Manufacturing Origin: USA

The designation that a product is Manufactured in the USA means the product undergoes substantial transformation in one of our U.S. Manufacturing plants. Some products contain imported components.

Note: 3M products offered on a government contract that require country of origin representation must be certified by 3M Trade Compliance. Contact customer service at 800-245-3573 to request a certificate.

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