

MIL-DTL-23053/5C,  
CLASSES 1 & 3  
UL STANDARD 224  
CSA STANDARD 198  
RoHS COMPLIANT

# **FIT® Preferred Heat Shrink Products**

## **LOW SHRINK TEMP., FLAME RETARDANT IRRADIATED POLYOLEFIN**

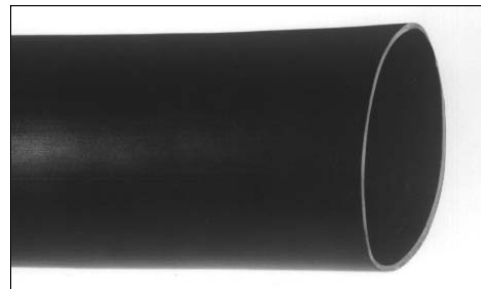
### **FIT®-221V**

## **CHOOSE FIT®-221V For:**

- Lowest Shrink Temperature (90°C)
- Fastest Recovery Time
- UL VW-1 & CSA OFT Flame Retardancy
- Resistance to Water, Fungus, UV Light (black only)
- Large, Economical, Bulk Packages
- Colors Available!

**2 TO 1 SHRINK RATIO**

**NOW IN COLORS AND  
ECONOMICAL BULK  
PACKAGES!**



## **FIT®-221V APPLICATIONS:**

- Where Substrates are Heat Sensitive
- Where Reduced Shrink Time Saves Costs
- Flame Retardancy Requirements
- Industrial Applications
- Cable and Connector Protection
- Automated Cutting Machines (spools)

## **CHARACTERISTICS**

### **OPERATING TEMPERATURE:**

- -55°C to 135°C

### **SHRINKAGE RATIO:**

- Approximately 2 to 1 at 90°C

### **COLOR DESCRIPTION:**

- Standard 4 Ft. Lengths and Spools: Black, White, Red, Yellow, Green, Blue
- Bulk 4 Ft. Lengths and Spools: Black Only
- 6 In. Pieces: Black Only

### **PHYSICAL PROPERTIES:**

- Tensile Strength: 1500 psi, (106 kg/cm<sup>2</sup>)
- Ultimate Elongation: 200%
- Longitudinal Shrinkage: -5%
- Specific Gravity: 1.35
- Flammability: Self-Extinguishing (UL VW-1, CSA OFT)

### **CHEMICAL PROPERTIES:**

- Corrosive Effect: Passes Copper Stability Test
- Fungus Resistance: No Growth

### **ELECTRICAL PROPERTIES:**

- Dielectric Strength: 500V/mil (197 kV/cm)
- Volume Resistivity: 10<sup>14</sup> ohm-cm

## **SPECIFICATIONS**

- MIL-DTL-23053/5C, Classes 1 & 3
- UL Standard 224
- CSA Standard 198
- Passes UL VW-1 Flame Test
- Passes CSA OFT Flame Test
- RoHS Compliant

| Alpha Part No. and Size | Minimum Supplied I.D. |       | Maximum Rec. I.D. |       | Nom. Rec. Wall Thickness |      | Standard Packages        |                   |                       |
|-------------------------|-----------------------|-------|-------------------|-------|--------------------------|------|--------------------------|-------------------|-----------------------|
|                         | Inches                | mm    | Inches            | mm    | Inches                   | mm   | 4 Ft. Lengths Total Ftg. | Spools Total Ftg. | No. Cut Pieces 6 Inch |
| <b>FIT-221V-3/64</b>    | 0.046                 | 1,17  | 0.023             | 0,58  | 0.016                    | 0,41 | 100                      | 1000              | 40                    |
| <b>FIT-221V-1/16</b>    | 0.063                 | 1,60  | 0.031             | 0,78  | 0.017                    | 0,43 | 100                      | 1000              | 36                    |
| <b>FIT-221V-3/32</b>    | 0.093                 | 2,36  | 0.046             | 1,17  | 0.020                    | 0,50 | 100                      | 500               | 32                    |
| <b>FIT-221V-1/8</b>     | 0.125                 | 3,18  | 0.062             | 1,58  | 0.020                    | 0,50 | 100                      | 500               | 28                    |
| <b>FIT-221V-3/16</b>    | 0.187                 | 4,75  | 0.093             | 2,36  | 0.020                    | 0,50 | 100                      | 500               | 24                    |
| <b>FIT-221V-1/4</b>     | 0.250                 | 6,35  | 0.125             | 3,18  | 0.025                    | 0,63 | 100                      | 250               | 20                    |
| <b>FIT-221V-3/8</b>     | 0.375                 | 9,53  | 0.187             | 4,75  | 0.025                    | 0,63 | 100                      | 200               | 16                    |
| <b>FIT-221V-1/2</b>     | 0.500                 | 12,70 | 0.250             | 6,35  | 0.025                    | 0,63 | 20                       | 150               | 14                    |
| <b>FIT-221V-3/4</b>     | 0.750                 | 19,10 | 0.375             | 9,53  | 0.030                    | 0,76 | 20                       | 250               | 12                    |
| <b>FIT-221V-1</b>       | 1.000                 | 25,40 | 0.500             | 12,70 | 0.035                    | 0,88 | 20                       | 250               | 8                     |
| <b>FIT-221V-1-1/2</b>   | 1.500                 | 38,10 | 0.750             | 19,10 | 0.040                    | 1,02 | 20                       | 125               | 5                     |
| <b>FIT-221V-2</b>       | 2.000                 | 50,80 | 1.000             | 25,40 | 0.045                    | 1,14 | 20                       | 125               | 3                     |

| Alpha Part No. and Size | BULK PACKAGES |            |               |            |
|-------------------------|---------------|------------|---------------|------------|
|                         | SPOOLS        |            | 4 FT. LENGTHS |            |
|                         | Qty. in Box   | Total Ftg. | No. of Pcs.   | Total Ftg. |
| <b>FIT-221V-3/64</b>    | 3x1000        | 3000       | 250x4         | 1000       |
| <b>FIT-221V-1/16</b>    | 3x1000        | 3000       | 250x4         | 1000       |
| <b>FIT-221V-3/32</b>    | 3x500         | 1500       | 250x4         | 1000       |
| <b>FIT-221V-1/8</b>     | 3x500         | 1500       | 250x4         | 1000       |
| <b>FIT-221V-3/16</b>    | 2x500         | 1000       | 250x4         | 1000       |
| <b>FIT-221V-1/4</b>     | 2x250         | 500        | 250x4         | 1000       |
| <b>FIT-221V-3/8</b>     | 2x200         | 400        | 250x4         | 1000       |
| <b>FIT-221V-1/2</b>     | 2x150         | 300        | 200x4         | 800        |
| <b>FIT-221V-3/4</b>     | 1x250         | 250        | 125x4         | 500        |
| <b>FIT-221V-1</b>       | 1x250         | 250        | 75x4          | 300        |

