

# FIT® Preferred Heat Shrink Products

## FLEXIBLE IRRADIATED PVC

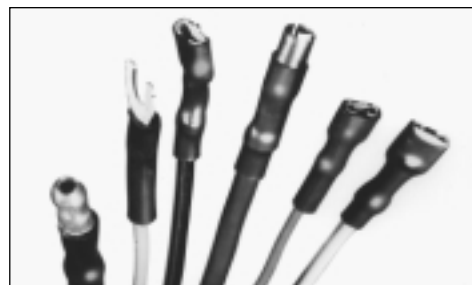
### FIT®-105

MIL-I-23053/2C,  
CLASS 1\*  
UL STANDARD 224  
CSA STANDARD 198

## CHOOSE FIT®-105 FOR:

- Low Shrink Temperature (100°C)
- 30% Stronger than Standard Polyolefin
- UL VW-1 and CSA OFT Flame Retardancy
- Low Water Absorption and UV Resistant
- Multiple Package Availability

2 TO 1 SHRINK RATIO



## FIT®-105 APPLICATIONS:

- Use with PVC Cable
- With Heat Sensitive Substrates
- Fast Recovery Time
- Wire Harnesses and Cable Assemblies
- Flame Retardant Requirements
- XTRA•GUARD® 1 Applications
- Automated Cutting Machines (spools)

## CHARACTERISTICS

### OPERATING TEMPERATURE:

- -20°C to 105°C

### SHRINKAGE RATIO:

- Approximately 2 to 1 at 100°C

### COLOR DESCRIPTION:

- All Standard Packages: Black  
(White Available in Certain Sizes)

### PHYSICAL PROPERTIES:

- Tensile Strength: 2000 psi, (141 kg/cm²)
- Ultimate Elongation: 200%
- Longitudinal Shrinkage: -15%†
- Specific Gravity: 1.40
- Flammability: Self-Extinguishing (UL VW-1, CSA OFT)

### CHEMICAL PROPERTIES:

- Corrosive Effect: Meets Requirements of MIL-I-631
- Fungus Resistance: No Growth (MIL-I-7444)
- Water Absorption: 0 to 1% Max. 24 Hrs. at 25°C

### ELECTRICAL PROPERTIES:

- Dielectric Strength: 400V/mil (158 kV/cm)
- Volume Resistivity: 10<sup>11</sup> ohm-cm

| Alpha Part No. and Size | Minimum Supplied I.D. |       | Maximum Rec. I.D. |       | Nom. Rec. Wall Thickness |      | Tot. Ftg. | Spools    |           |           |           |
|-------------------------|-----------------------|-------|-------------------|-------|--------------------------|------|-----------|-----------|-----------|-----------|-----------|
|                         | Inches                | mm    | Inches            | mm    | Inches                   | mm   |           | Tot. Ftg. | Tot. Ftg. | Tot. Ftg. | Tot. Ftg. |
| <b>FIT-105-3/64</b>     | 0.046                 | 1,17  | 0.023             | 0,58  | 0.020                    | 0,50 | 1000      | 500       | 100       | 25        |           |
| <b>FIT-105-1/16</b>     | 0.062                 | 1,58  | 0.031             | 0,78  | 0.020                    | 0,50 | 1000      | 500       | 100       | 25        |           |
| <b>FIT-105-3/32</b>     | 0.093                 | 2,36  | 0.046             | 1,17  | 0.020                    | 0,50 | 1000      | 100       |           | 25        |           |
| <b>FIT-105-1/8</b>      | 0.125                 | 3,18  | 0.062             | 1,58  | 0.025                    | 0,63 | 1000      | 100       |           | 25        |           |
| <b>FIT-105-3/16</b>     | 0.187                 | 4,75  | 0.093             | 2,36  | 0.025                    | 0,63 | 1000      | 100       |           | 25        |           |
| <b>FIT-105-1/4</b>      | 0.250                 | 6,35  | 0.125             | 3,18  | 0.025                    | 0,63 | 1000      | 100       |           | 25        |           |
| <b>FIT-105-3/8</b>      | 0.375                 | 9,53  | 0.187             | 4,75  | 0.030                    | 0,76 | 500       | 100       |           | 25        |           |
| <b>FIT-105-1/2</b>      | 0.500                 | 12,70 | 0.250             | 6,35  | 0.030                    | 0,76 | 250       | 100       |           | 25        |           |
| <b>FIT-105-3/4</b>      | 0.750                 | 19,10 | 0.375             | 9,53  | 0.035                    | 0,88 | 250       | 100       |           | 25        |           |
| <b>FIT-105-1</b>        | 1.000                 | 25,40 | 0.500             | 12,70 | 0.040                    | 1,02 | 250       | 100       |           | 25        |           |
| <b>FIT-105-1-1/2</b>    | 1.500                 | 38,10 | 0.750             | 19,10 | 0.045                    | 1,14 | 100       | 25        |           |           |           |
| <b>FIT-105-2</b>        | 2.000                 | 50,80 | 1.000             | 25,40 | 0.050                    | 1,27 | 100       | 50        |           | 25        |           |

### Packaged Assortments

Assorted Sizes of 6" Lengths  
Each Length - Size Identified

| Alpha Part No.      | Tubing Size Range         | Lengths Per Box                     |
|---------------------|---------------------------|-------------------------------------|
| <b>FIT-105-MS-1</b> | 3/64" - 1/4"<br>(6 Sizes) | 10 Lengths Per Size<br>(60 Lengths) |
| <b>FIT-105-MS-2</b> | 3/8" - 1"<br>(4 Sizes)    | 10 Lengths Per Size<br>(40 Lengths) |

## SPECIFICATIONS

- MIL-I-23053/2C, Class 1\*
- UL Standard 224
- CSA Standard 198
- Passes UL VW-1 Flame Test
- Passes CSA OFT Flame Test



Underwriters Laboratories Inc.



Underwriters Laboratories Inc.



Canadian Standards Association

\*Military Specification Sheet MIL-I-23053/2C, is inactive for new design and is no longer used by the Department of Defense except for replacement purposes.  
†Does not meet MIL-I-23053/2C requirements.

