

# NEW!

Alpha Wire Company

# FIT<sup>®</sup>-CLEAR



Preferred  
Heat Shrink  
Products

*Simple, Comprehensive  
Tubing Solutions*

## INTRODUCING...

# FIT<sup>®</sup>-CLEAR

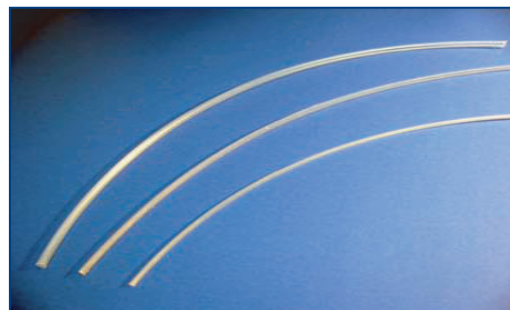
2 TO 1 SHRINK RATIO

**A CRYSTAL CLEAR HEAT SHRINKABLE  
TUBING PRODUCT THAT IS ALSO  
HIGHLY FLAME RETARDANT!**

New **FIT<sup>®</sup>-CLEAR** is a unique addition to Alpha Wire Company's line of **FIT<sup>®</sup>** Preferred Heat Shrink Products. **FIT<sup>®</sup>-CLEAR** is a modified polyvinylidene fluoride (PVDF) based, clear heat shrinkable tubing alternative offering a low shrink temperature of 150°C and UL VW-1 flame retardancy.

**FIT<sup>®</sup>-CLEAR** has numerous advantages over other transparent heat shrink tubing products. PVDF allows **FIT<sup>®</sup>-CLEAR** to remain crystal clear after application. Information beneath applied tubing remains easily legible. An excellent alternative to standard Kynar<sup>®</sup>\*\*\* or Teflon<sup>®</sup>\*\*\*\* heat shrinkable tubing products, this modified PVDF-based product is resistant to mechanical abrasion and cut-through as well as most chemicals including solvents. In addition, **FIT<sup>®</sup>-CLEAR**'s lower recovery temperature saves valuable installation time and protects the underlying substrate from excessive heating.

Since most alternative clear heat shrinkable tubing is flammable, **FIT<sup>®</sup>-CLEAR** is ideal in applications where flame retardancy is critical. **FIT<sup>®</sup>-CLEAR** meets UL Standard 224, passes the UL VW-1 Flame Test and meets or exceeds the requirements of SAE-AMS-DTL-23053/18, Class 1. **FIT<sup>®</sup>-CLEAR** is put up on spools in a variety of sizes ranging from 3/64" to 2" and is RoHS compliant. **FIT<sup>®</sup>-CLEAR**, like all **FIT<sup>®</sup>** Preferred Heat Shrink Products, is available from stock for immediate delivery.



\*\*Kynar<sup>®</sup> is a registered trademark of ELF Atochem North America, Inc.

\*\*\*Teflon<sup>®</sup> is a registered trademark of E.I. DuPont Co.

 **Recognized  
Component**  
Underwriters Laboratories Inc.

 **Passes  
UL VW-1 Flame Test**  
Underwriters Laboratories Inc.

 **RoHS  
Compliant**

**FOR ADDITIONAL INFORMATION ON ANY **FIT<sup>®</sup>** Preferred Heat Shrink Product,  
VISIT [www.alphawire.com](http://www.alphawire.com)**



# CLEAR, HIGHLY FLAME RETARDANT POLYVINYLIDENE FLUORIDE, 2 TO 1 SHRINK RATIO HEAT SHRINKABLE TUBING

## CHOOSE **FIT-CLEAR** FOR:

- Where Visual Inspection And Identification Are Required
- Excellent Flame Retardancy
- Excellent Heat Resistance
- Faster Recovery Time Than Standard Kynar®\* And Teflon®\*\*
- Lower Recovery Temperature (150°C) Than Standard PVDF
- Excellent Chemical Resistance
- Mechanical Abrasion And Cut-Through Resistance
- For Use With **XTRA-GUARD® 4** and **XTRA-GUARD® 5**

## **FIT-CLEAR** APPLICATIONS:

- Visual Inspection And Identification Applications
- Automotive Wiring, Jackets And Fuse Covering Applications
- Jacketing For Resistors, Capacitors And Other Components
- High Temperature Environments
- Protection In Caustic Environments
- Protection In Chemical Environments
- Wiremarkers
- Wire Insulation And Component Stress Relief
- Replacement Of Non-flame Retarded Clear Sleeveing
- For Use With **XTRA-GUARD® 4** and **XTRA-GUARD® 5** Applications

## CHARACTERISTICS

### OPERATING TEMPERATURE:

- -55°C to +175°C, Continuous (UL: 150°C)

### SHRINKAGE RATIO:

- Approximately 2 to 1 at 150°C

### COLOR DESCRIPTION:

- All Standard Packages: Clear

### PHYSICAL PROPERTIES:

- Tensile Strength: 3500 psi, (246 kg/cm²) Min.
- Ultimate Elongation: 200%, Min.
- Longitudinal Shrinkage: 10%, Max.
- Specific Gravity: 2.00, Max.
- Flammability: Self-Extinguishing (UL: VW-1)

### CHEMICAL PROPERTIES:

- Corrosive Effect: None
- Water Absorption: 0.5%, Max.
- Chemical Resistance: Solvents, JP-4, Oxidants, Strong Acids and Bases

### ELECTRICAL PROPERTIES:

- Dielectric Strength: 400V / mil (157 kV / cm), Min.
- Volume Resistivity:  $1.0 \times 10^{11}$  ohm-cm, Min.



## SPECIFICATIONS: SAE-AMS-DTL-23053/18, Class 1, UL Standard 224, Passes UL VW-1 Flame Test

Alpha Part No. and Size	Minimum Supplied I.D. Inches I.D.		Maximum Recovered I.D. Inches I.D.		Nominal Recovered Wall Thickness Inches I.D.		Standard Package Spools Total Fig.
<b>FIT-CLEAR-3/64</b>	0.046	1,2	0.023	0,6	0.010	0,25	100
<b>FIT-CLEAR-1/16</b>	0.063	1,6	0.031	0,8	0.010	0,25	100
<b>FIT-CLEAR-3/32</b>	0.093	2,4	0.046	1,2	0.010	0,25	100
<b>FIT-CLEAR-1/8</b>	0.125	3,2	0.062	1,6	0.010	0,25	100
<b>FIT-CLEAR-3/16</b>	0.187	4,8	0.093	2,4	0.010	0,25	100
<b>FIT-CLEAR-1/4</b>	0.250	6,4	0.125	3,2	0.012	0,30	100
<b>FIT-CLEAR-3/8</b>	0.375	9,5	0.187	4,8	0.012	0,30	100
<b>FIT-CLEAR-1/2</b>	0.500	12,7	0.250	6,4	0.012	0,30	50
<b>FIT-CLEAR-3/4</b>	0.750	19,1	0.375	9,5	0.017	0,43	50
<b>FIT-CLEAR-1</b>	1.000	25,4	0.500	12,7	0.019	0,48	50
<b>FIT-CLEAR-1-1/2</b>	1.500	38,1	0.750	19,1	0.020	0,51	50
<b>FIT-CLEAR-2</b>	2.000	50,8	1.000	25,4	0.020	0,51	50



NORTH AMERICA AND INTERNATIONAL  
Alpha Wire Company

EUROPE  
Alpha Wire International