

**NEW!****FIT®-CLEAR**

*Simple, Comprehensive  
Tubing Solutions*

**INTRODUCING...**

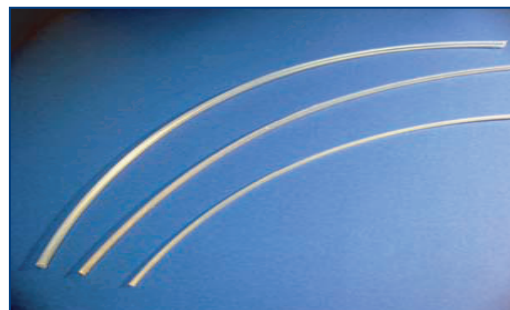
**FIT®-CLEAR** 

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

New **FIT®-CLEAR** is a unique addition to Alpha Wire Company's line of **FIT® Preferred Heat Shrink Products**. **FIT®-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®-CLEAR** has numerous advantages over other transparent heat shrink tubing products. PVDF allows **FIT®-CLEAR** to remain crystal clear after application. Information beneath applied tubing remains easily legible. An excellent alternative to standard Kynar®\*\*\* or Teflon®\*\*\* 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®-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®-CLEAR** is ideal in applications where flame retardancy is critical. **FIT®-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®-CLEAR** is put up on spools in a variety of sizes ranging from 3/64" to 2" and is RoHS compliant. **FIT®-CLEAR**, like all **FIT® Preferred Heat Shrink Products**, is available from stock for immediate delivery.



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

\*\*\*Teflon® is a registered trademark of E.I. DuPont Co.



**FOR ADDITIONAL INFORMATION ON ANY FIT® 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/cm<sup>2</sup>) 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 x 10<sup>11</sup> 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.		Maximum Recovered I.D.		Nominal Recovered Wall Thickness		Standard Package Spools Total Fig.
	Inches	I.D.	Inches	I.D.	Inches	I.D.	
<b>FIT</b> ®-CLEAR-3/64	0.046	1,2	0.023	0,6	0.010	0,25	100
<b>FIT</b> ®-CLEAR-1/16	0.063	1,6	0.031	0,8	0.010	0,25	100
<b>FIT</b> ®-CLEAR-3/32	0.093	2,4	0.046	1,2	0.010	0,25	100
<b>FIT</b> ®-CLEAR-1/8	0.125	3,2	0.062	1,6	0.010	0,25	100
<b>FIT</b> ®-CLEAR-3/16	0.187	4,8	0.093	2,4	0.010	0,25	100
<b>FIT</b> ®-CLEAR-1/4	0.250	6,4	0.125	3,2	0.012	0,30	100
<b>FIT</b> ®-CLEAR-3/8	0.375	9,5	0.187	4,8	0.012	0,30	100
<b>FIT</b> ®-CLEAR-1/2	0.500	12,7	0.250	6,4	0.012	0,30	50
<b>FIT</b> ®-CLEAR-3/4	0.750	19,1	0.375	9,5	0.017	0,43	50
<b>FIT</b> ®-CLEAR-1	1.000	25,4	0.500	12,7	0.019	0,48	50
<b>FIT</b> ®-CLEAR-1-1/2	1.500	38,1	0.750	19,1	0.020	0,51	50
<b>FIT</b> ®-CLEAR-2	2.000	50,8	1.000	25,4	0.020	0,51	50



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AL-FITCLEAR  
(CY07-021-10M)