

**ALPHA WIRE COMPANY**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: FIT350**  
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**Issue: 3**  
**Issue Date: 12/31/2008**  
**Effective Date: 3/1/2009**

**A. Construction**

- |                    |                         |
|--------------------|-------------------------|
| 1) Tubing Type     | Heat Shrinkable Tubing  |
| 2) Tubing Material | Irradiated PVDF (Kynar) |
| 3) Color(s)        | CLEAR                   |

Part Number	Minimum Supplied ID (In)	Maximum Recovered ID (In)	Nominal Recovered Wall Thickness (In)
FIT350-3/64	0.046	0.023	0.010
FIT350-1/16	0.063	0.031	0.010
FIT350-3/32	0.093	0.046	0.010
FIT350-1/8	0.125	0.062	0.010
FIT350-3/16	0.187	0.093	0.010
FIT350-1/4	0.250	0.125	0.012
FIT350-3/8	0.375	0.187	0.012
FIT350-1/2	0.500	0.250	0.012
FIT350-3/4	0.750	0.375	0.017
FIT350-1IN	1.000	0.500	0.019

**B. Industry Approvals**

- |                                   |  |
|-----------------------------------|--|
| 1) UL                             | Standard 224<br>VW-1   |
| 2) CSA International              | Standard 198   |
| 3) Other                          | AMS-DTL-23053/8<br>REACH Regulation (EC 1907/2006)   |
| 4) EU Directive 2002/95/EC(RoHS): | All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture. |

**C. Physical & Mechanical Properties**

- |                                  |                            |               |
|----------------------------------|----------------------------|---------------|
| 1) Temperature Range             | -55 to 175°C               |               |
| 2) Shrink Ratio                  | Approximately 2:1          |               |
| 3) Full Recovery Temperature     | 175°C                      |               |
| 4) Tensile Strength              | 5000psi, Min               | ASTM D638     |
| 5) Elongation                    | 150%, Min                  | ASTM D638     |
| 6) Low Temperature Flex(-55°C)   | no cracking                | AMS-DTL-23053 |
| 7) Heat Resistance(250°C,168hrs) | 100% Elongation, Min       | ASTM D638     |
| 8) Heat Shock(300°C,4hrs)        | no cracking                | AMS-DTL-23053 |
| 9) Secant Modulus                | 1x10 <sup>5</sup> psi, Min | ASTM D882     |
| 10) Longitudinal Change          | +/-10%                     | AMS-DTL-23053 |
| 11) Specific Gravity             | 1.80, Max                  | ASTM D792     |
| 12) Deformation(125°C,1 hr)      | 50% Max                    | UL 224        |
| 13) Shelf Life                   | 5 Years @ 0 to 35°C        |               |

**D. Electrical Properties**

- |                        |                                |           |
|------------------------|--------------------------------|-----------|
| 1) Dielectric Strength | 800 V/mil, Min                 | ASTM D876 |
| 2) Volume Resistivity  | 1x10 <sup>13</sup> ohm-cm, Min | ASTM D876 |

**E. Chemical Properties**

- |                                  |               |               |
|----------------------------------|---------------|---------------|
| 1) Water Absorption              | 0.50%, Max    | ASTM D570     |
| 2) Fluid Resistance(23°C,24 Hrs) | 5000 PSI, Min | AMS-DTL-23053 |
| 3) Vacuum Outgassing - CVCM      | 0.03%, Max    | ASTM E595     |
| 4) Vacuum Outgassing - TML       | 0.11%, Max    | ASTM E595     |
| 5) Halogen Free                  | No            |               |

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6) Lead Free Yes

**F. Other**

- 1) Packaging
  - a) FIT350-3/64  
25X4 FT, 32X6 IN
  - b) FIT350-1/16  
25X4 FT, 28X6 IN
  - c) FIT350-3/32  
25X4 FT, 24X6 IN
  - d) FIT350-1/8  
25X4 FT, 20X6 IN
  - e) FIT350-3/16  
25X4 FT, 16X6 IN
  - f) FIT350-1/4  
25X4 FT, 12X6 IN
  - g) FIT350-3/8  
25X4 FT, 8X6 IN
  - h) FIT350-1/2  
5X4 FT, 4X6 IN
  - i) FIT350-3/4  
5X4 FT, 2X6 IN
  - j) FIT350-1IN  
5X4 FT, 1X6 IN

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