# ALPHA WIRE COMPANY
## CUSTOMER PRODUCT SPECIFICATION

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|---|---|
| **Part Number: FIT350** | **Issue: 3** |
| **Page 1 of 2 Pages** | **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; VW-1
2) CSA International — Standard 198
3) Other — AMS-DTL-23053/8; 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 | $1x10^5$ 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 | $1x10^{13}$ 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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