

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Request a Sample

Customer Specification PART NO. FIT-221-2IN

Construction

| 1) Tubing Type | Heat Shrinkable Tubing |
|---|---|
| 2) Tubing Material | Cross Linked Polyolefin |
| 3) Minimum Supplied ID(In) | 2.000 |
| 4) Maximum Recovered ID (In) | 1.000 |
| 5) Nominal Recovered Wall Thickness(In) | 0.045 |
| 6) Color(s) | BLACK, WHITE, CLEAR, RED, YELLOW, BLUE, GREEN, ORANGE |

Applicable Specifications

| 1) UL | Standard 224 (Except Clear) 600V | |
|----------------------|--|--|
| 2) CSA International | Standard 198 (Except Clear) 600V | |
| 3) Other | AMS-DTL-23053/5 Class 1 (Except Clear) | |
| | AMS-DTL-23053/5 Class 2 (Clear Only) | |

Environmental

| 1) EU Directive 2011/65/EU(RoHS2): | | | |
|-------------------------------------|---|--|--|
| | All materials used in the manufacture of this part are in compliance with European Directive 2011/65/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for RoHS C of C. | | |
| 2) REACH Regulation (EC 1907/2006): | | | |
| | This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see Alpha's REACH SVHC Declaration. | | |
| 3) California Proposition 65: | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. | | |

Properties

| Physical & Mechanical Properties | | | | |
|----------------------------------|--------------------------------|---------------|--|--|
| 1) Temperature Range | -55 to 135°C | | | |
| 2) Shrink Ratio | Approximately 2:1 | | | |
| 3) Full Recovery Temperature | 121°C | | | |
| 4) Minimum Shrink Temperature | 90°C | | | |
| 5) Tensile Strength | 1500psi, Min | ASTM D638 | | |
| 6) Elongation | 200%, Min | ASTM D638 | | |
| 7) Low Temperature Flex(-55°C) | no cracking | AMS-DTL-23053 | | |
| 8) Heat Shock(250°C,4hrs) | no cracking | AMS-DTL-23053 | | |
| 9) Secant Modulus | 2.5x10 ⁴ psi, Min | ASTM D882 | | |
| 10) Longitudinal Change | +/-5% | AMS-DTL-23053 | | |
| 11) Specific Gravity(Colors) | 1.35, Max | ASTM D792 | | |
| Specific Gravity(Clear) | 1.00, Max | | | |
| 12) Shelf Life | 5 Years @ 18 to 35°C | | | |
| Electrical Properties | | | | |
| 1) Dielectric Strength | 500 V/mil, Min | ASTM D876 | | |
| 2) Volume Resistivity | 1x10 ¹⁴ ohm-cm, Min | ASTM D876 | | |
| Chemical Properties | | | | |
| 1) Water Absorption | 0.50%, Max | ASTM D570 | | |
| 2) Corrosion(0°C,16hrs) | no corrosion | AMS-DTL-23053 | | |
| 3) Fluid Resistance(23°C,24 Hrs) | 1000 PSI, Min | AMS-DTL-23053 | | |
| 4) Fungus Resistance | Pass | AMS-DTL-23053 | | |
| 5) Vacuum Outgassing - CVCM | 0.10%, Max | ASTM E595 | | |
| 6) Halogen Free | No | | | |
| 7) Lead Free | Yes | | | |

Other

Packaging

www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742) Although Alpha Wire ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: FIT-221-2IN

FIT-221-2IN, RoHS-Compliant Commencing With 12/1/2004 Production

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2006.

| Substance | Maximum Control Value |
|--|----------------------------|
| Lead | 0.1% by weight (1000 ppm) |
| Mercury | 0.1% by weight (1000 ppm) |
| Cadmium | 0.01% by weight (100 ppm) |
| Hexavalent Chromium | 0.1% by weight (1000 ppm) |
| Polybrominated Biphenyls (PBB) | 0.1% by weight (1000 ppm) |
| Polybrominated Diphenyl Ethers (PBDE), | |

Including Deca-BDE

0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

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