

## Customer Specification

### PART NO. FIT-105-1-1/2

## Construction

|   |                        |
|---|------------------------|
| 1) Tubing Type                          | Heat Shrinkable Tubing |
| 2) Tubing Material                      | Irradiated PVC         |
| 3) Minimum Supplied ID(In)              | 1.500                  |
| 4) Maximum Recovered ID (In)            | 0.750                  |
| 5) Nominal Recovered Wall Thickness(In) | 0.045                  |
| 6) Color(s)                             | BLACK                  |

## Applicable Specifications

|                      |   |       |
|----------------------|---|-------|
| 1) UL                | VW-1  |       |
|                      | Standard 224                                      |       |
| 2) CSA International | Standard 198                                      | 105°C |
| 3) Other             | AMS-DTL-23053/2 Class1 Exc Longitudinal Shrinkage |       |

## 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 <a href="#">RoHS C of C</a> . |
| 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 <a href="#">Alpha's REACH SVHC Declaration</a> .                             |
| 3) California Proposition 65:       | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.   |

# Properties

| <b>Physical &amp; Mechanical Properties</b> |                                |               |
|---|--------------------------------|---------------|
| 1) Temperature Range                        | -20 to 105°C                   |               |
| 2) Shrink Ratio                             | Approximately 2:1              |               |
| 3) Full Recovery Temperature                | 105 °C                         |               |
| 4) Minimum Shrink Temperature               | 100°C                          |               |
| 5) Tensile Strength                         | 3000psi, Min                   | ASTM D638     |
| 6) Elongation                               | 300%, Min                      | ASTM D638     |
| 7) Cold Impact(-55°C)                       | no cracking                    | ASTM D746     |
| 8) Heat Shock(180°C,4hrs)                   | no cracking                    | AMS-DTL-23053 |
| 9) Secant Modulus                           | 2.5x10 <sup>4</sup> psi, Min   | ASTM D882     |
| 10) Longitudinal Change                     | +1%/-25%                       | AMS-DTL-23053 |
| 11) Specific Gravity                        | 1.32, Max                      | ASTM D792     |
| 12) Shelf Life                              | 1 Years @ 18 to 35°C           |               |
| <b>Electrical Properties</b>                |                                |               |
| 1) Dielectric Strength                      | 1083 V/mil, Min                | ASTM D876     |
| 2) Volume Resistivity                       | 1x10 <sup>12</sup> ohm-cm, Min | ASTM D876     |
| <b>Chemical Properties</b>                  |                                |               |
| 1) Water Absorption                         | 1.00%, Max                     | ASTM D570     |
| 2) Corrosion(0°C,16hrs)                     | no corrosion                   | AMS-DTL-23053 |
| 3) Fungus Resistance                        | Pass                           | AMS-DTL-23053 |
| 4) Halogen Free                             | No                             |               |
| 5) Lead Free                                | Yes                            |               |

# Other

| <b>Packaging</b> |
|------------------|
| 100 FT, 25 FT    |

[www.alphawire.com](http://www.alphawire.com)

Alpha Wire  
2200 US Highway 27 South  
Richmond, IN 47374

Tel: 1-800-52 ALPHA

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure there 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.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

ALPHA WIRE - CONFIDENTIAL AND PROPRIETARY Notice to persons receiving this document and/or technical information. This document is confidential and is the exclusive property of ALPHA WIRE, and is merely on loan and subject to recall by ALPHA WIRE at any time. By taking possession of this document, the recipient acknowledges and agrees that this document cannot be used in any manner adverse to the interests of ALPHA WIRE, and that no portion of this document may be copied or otherwise reproduced without the prior written consent of ALPHA WIRE. In the case of conflicting contractual provisions, this notice shall govern the status of this document. <br /><br />©2019 ALPHA WIRE - all rights reserved.



