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Customer Specification

PART NO. 9316

Construction

| | | | | Diameters (In) | |
|----------------|-------|---|-------|--------------------|-------|
| 1) Component 1 | | 1 X 1 COAX | | | |
| a) Conductor | | 25 (7/.0067) AWG SCW | | 0.020 | |
| b) Insulation | | 0.020" Wall, Nom. PTFE | | 0.060 | |
| (1) Color(s) | | | | | |
| Cond | Color | Cond | Color | Cond | Color |
| 1 | CLEAR | | | | |
| 2) Shield | | SPC BRAID Shield,94% Coverage, Min. | | | |
| 3) Jacket | | 0.010" Wall, Nom.,FEP | | 0.098 (0.102 Max.) | |
| a) Color(s) | | NATURAL TAN | | | |
| b) Print | | ALPHA WIRE-* P/N 9316 MIL-DTL-17 M17/113-RG 316 12814 E346462 1C 26 AWG SHIELDED 200C (UL) C(UL) CMG FT4 OR AWM 1971 150C 125V CE ROHS * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i> | | | |

Applicable Specifications

| | | |
|----------------------|-------------------------------------|------------------------------|
| 1) UL | AWM/STYLE 1971 | 150°C / 125 V _{RMS} |
| | CMG | 200°C |
| 2) CSA International | C(UL) TYPE CMG | 200°C |
| | FT4 | |
| 3) Military | MIL-C-17/113 RG 316/U | 200°C / 900 V _{RMS} |
| 4) CE: | EU Low Voltage Directive 2006/95/EC | |

Environmental

| | |
|--|---|
| 1) CE: EU Directive 2011/65/EU(RoHS2): | This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. 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 200°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 2.11 Lbs, Maximum |
| Electrical Properties | |
| (For Engineering purposes only) | |
| 1) Voltage Rating | 900 V _{RMS} |
| 2) Characteristic Impedance | 50 Ω +/- 2 |
| 3) Ground Capacitance | 29.3 pf/ft @1 kHz, Nominal |
| 4) Velocity of Propagation | 70 % |
| 5) Conductor DCR | 85.8 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 8.5 Ω/1000ft @20°C, Nominal |
| 7) Voltage Withstanding | 2 kV, Minimum |
| 8) Corona Extinction | 1.2 kV, Minimum |
| 9) SRL | 30 db @ 50 MHz |
| | 30 @ 100 MHz |
| | 23 @ 400 MHz |
| | 21 @ 1 GHz |
| | 17 db @ 3 GHz |
| 10) Attenuation, Max dB/100ft | 7.5 @ 50 MHz |
| | 11 @ 100 MHz |
| | 21 @ 400 MHz |
| | 38 @ 1 GHz |
| | 58 @ 3 GHz |

Other

| Packaging | Flange x Traverse x Barrel (inches) |
|------------------------|--|
| a) 1000 FT | 9 x 4.5 x 3.5 Max. 3 separate pieces; Min length/piece 100 FT. |
| b) 500 FT | 6.5 x 4 x 2.5 Max. 2 separate pieces; Min length/piece 100 FT. |
| c) 100 FT | 3.5 x 3 x 1.125 Continuous length |
| d) Bulk(Made-to-order) | (Max. 3 pieces per 1000 FT./Min length 100 FT.) |
| | <i>[Spool dimensions may vary slightly]</i> |

www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207

Tel: 1-800-52 ALPHA (25742)

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 9316

9316 , RoHS-Compliant Commencing With 8/1/2005 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:

Dave Watson, Director of Engineering & QA

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Alpha Wire
711 Lidgerwood Ave.
Elizabeth, NJ 07207
Tel: 1-908-925-8000