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Customer Specification

PART NO. B965023

Construction

| | | Diameters (In) | | | |
|-------------------|-----------|--|-------------|--------------------|-------|
| 1) Component 1 | | 2 X 1 PAIR | | | |
| a) Conductor | | 20 (7/28) AWG TC | | 0.038 | |
| b) Insulation | | 0.016" Wall, Nom. PVC | | 0.070 | |
| (1) Color Code | | Alpha Wire Color Code A | | | |
| Pair | Color | Pair | Color | Pair | Color |
| 1 | BLACK-RED | 2 | BLACK-WHITE | | |
| c) Pair | | 2/Cond Cabled Together | | | |
| (1) Twists: | | 6.0 Twists/foot (min) | | | |
| 2) Cable Assembly | | 2 Components Cabled | | | |
| a) Twists: | | 4.4 Twists/foot (min) | | | |
| b) Core Wrap | | Clear Mylar Tape, 25% Overlap, Min. | | | |
| 3) Shield | | TC BRAID Shield, 85% Coverage, Min. | | | |
| a) Drain Wire | | 20 (7/28) AWG TC | | | |
| 4) Jacket | | 0.032" Wall, Nom., PVC | | 0.319 (0.333 Max.) | |
| a) Color(s) | | GREY | | | |
| b) Ripcord | | 1 End 810 Denier Nylon | | | |
| c) Print | | ALPHA WIRE-* P/N B965023 0.56MM2 (20AWG) (UL) TYPE CM 105C OR AWM 2464 VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4 CE ROHS (SEQ METERS) * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i> | | | |

Applicable Specifications

| | | |
|----------------------|-------------------------------------|------------------------------|
| 1) UL | | |
| a) Component 1 | AWM/STYLE 1569 | 105°C / 300 V _{RMS} |
| b) Overall | AWM/STYLE 2464 | 80°C / 300 V _{RMS} |
| | CM | 105°C |
| | VW-1 | |
| 2) CSA International | CMG | 105°C |
| | FT4 | |
| 3) IEC | EN 60332-1 Flame Behavior | |
| | EN 60332-2 Flame Behavior | |
| 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. |

Properties

| | |
|---|------------------------------|
| Physical & Mechanical Properties | |
| 1) Temperature Range | -30 to 105°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 50 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| Electrical Properties (For Engineering purposes only) | |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Mutual Capacitance | 39 pf/ft @1 kHz, Nominal |
| 3) Ground Capacitance | 70 pf/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 55 Ω |
| 5) Inductance | 0.19 μH/ft, Nominal |
| 6) Conductor DCR | 10.4 Ω/1000ft @20°C, Nominal |
| 7) OA Shield DCR | 2.49 Ω/1000ft @20°C, Nominal |

Other

| | |
|------------------|---|
| Packaging | Flange x Traverse x Barrel (inches) |
| a) 3280 FT | 30 x 14 x 12 Continuous length |
| b) 1640 FT | 20 x 11 x 8 Continuous length |
| c) 328 FT | 12 x 6 x 3.5 Continuous length |
| d) 164 FT | 12 x 4.5 x 3.5 Continuous length |
| | <i>[Spool dimensions may vary slightly]</i> |

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: B965023

B965023 , RoHS-Compliant Commencing With 7/13/2011 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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12/11/2015

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