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Customer Specification

PART NO. 80140

Construction

| | | Diameters (In) | | | |
|---------------------|--------------|--|----------|-----------------|----------|
| 1) Component 1 | | 25 X 1 COND | | | |
| a) Conductor | | 18 (41/34) AWG Tinned Copper | | 0.043 | |
| b) Insulation | | 0.010" Wall, Nom. MPPE | | 0.063 | |
| (1) Print | | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED | | | |
| (2) Color Code | | Alpha Wire Color Code KX | | | |
| Cond | Color | Cond | Color | Cond | Color |
| 1 | GREEN/YELLOW | 10 | BLACK#9 | 19 | BLACK#18 |
| 2 | BLACK#1 | 11 | BLACK#10 | 20 | BLACK#19 |
| 3 | BLACK#2 | 12 | BLACK#11 | 21 | BLACK#20 |
| 4 | BLACK#3 | 13 | BLACK#12 | 22 | BLACK#21 |
| 5 | BLACK#4 | 14 | BLACK#13 | 23 | BLACK#22 |
| 6 | BLACK#5 | 15 | BLACK#14 | 24 | BLACK#23 |
| 7 | BLACK#6 | 16 | BLACK#15 | 25 | BLACK#24 |
| 8 | BLACK#7 | 17 | BLACK#16 | | |
| 9 | BLACK#8 | 18 | BLACK#17 | | |
| 2) Cable Assembly | | 25 Components Cabled | | | |
| a) Twists: | | 2.7 Twists/foot (min) | | | |
| b) Core Wrap | | Nonwoven Polyester Tape, 25% Overlap, Min. | | | |
| 3) Shield | | Tinned Copper BRAID Shield, 85% Coverage, Min. | | | |
| 4) Jacket | | 0.032" Wall, Nom., Polyurethane, Zero Halogen (ZH) | | 0.474 +/- 0.021 | |
| a) Color(s) | | SLATE | | | |
| b) Jacket Separator | | Tissue Tape, 25% Overlap, Min. | | | |
| c) Print | | ALPHA WIRE-* P/N 80140 25C 18 AWG RU AWM STYLE 21959 90C 600V SUN RES 60C OIL OR CRU AWM I/II A/B 90C 600V FT2 --- IEC EN 60332-1/2 CE ROHS (SEQ FOOTAGE) * = Factory Code | | | |

Applicable Specifications

| | | |
|----------------------|-------------------------------------|------------------------------|
| 1) UL | | |
| a) Component 1 | AWM/STYLE 11231 | 105°C / 600 V _{RMS} |
| b) Overall | AWM/STYLE 21959 | 90°C / 600 V _{RMS} |
| | 60C OIL | |
| | SUN RES | |
| 2) CSA International | C(RU) AWM I/II A/B | 90°C / 600 V _{RMS} |
| | FT2 | |
| 3) IEC | | |
| a) Component 1 | EN 60228 Conductors, Class 6 | |
| b) Overall | EN 60754-1 Acid Gas Generation | |
| | EN 60754-2 Acid Gas Generation | |
| | 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 | -50 to 90°C(static), -40 to 80°C (dynamic) |
| 2) Bend Radius | 4X Cable Diameter(static), 6X Cable Diameter(dynamic) |
| 3) Pull Tension | 328 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| Electrical Properties (For Engineering purposes only) | |
| 1) Voltage Rating | 600 V _{RMS} |
| 2) Capacitance | 31 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 56 pf/ft @1 kHz, Nominal |
| 4) Inductance | 0.16 µH/ft, Nominal |
| 5) Conductor DCR | 7.1 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 3 Ω/1000ft @20°C, Nominal |

Other

| | |
|------------------------|---|
| Packaging | Flange x Traverse x Barrel (inches) |
| a) 100 FT | 12 x 10 x 5 Continuous length |
| b) Bulk(Made-to-order) | |
| | <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: 80140

80140 , RoHS-Compliant Commencing With 5/18/2015 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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6/12/2015

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