

Customer Specification

PART NO. 840309

Construction

| | | | | Diameters (In) | |
|--|-------|--|-------|-------------------|--------|
| 1) Component 1 | | 3 X 1 COND | | | |
| a) Conductor | | 20 (7/28) AWG Tinned Copper | | 0.038 | |
| b) Insulation | | 0.016" Wall, Nom. TPE | | 0.070 | |
| (1) Color(s) | | | | | |
| Cond | Color | Cond | Color | Cond | Color |
| 1 | BLACK | 2 | WHITE | 3 | YELLOW |
| 2) Cable Assembly | | 3 Components Cabled | | | |
| a) Twists: | | 6.9 Twists/foot (min) | | | |
| b) Orientation: | | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER | | c) Core Wrap | |
| Nonwoven Polyester Tape, 25% Overlap, Min. | | | | 3) Shield: | |
| Alum/Mylar Tape, 25% Overlap, Min. | | | | a) Foil Direction | |
| Foil Facing Out | | | | b) Drain Wire | |
| 20 (41/36) AWG Tinned Copper | | | | 4) Jacket | |
| 0.045" Wall, Nom., TPE | | 0.249 (0.260 Max.) | | a) Color(s) | |
| BLUE | | | | b) Ripcord | |
| 1 End 810 Denier Nylon | | | | c) Print | |

Applicable Specifications

| | | |
|----------------------|-------------------------------------|------------------------------|
| 1) UL | AWM/STYLE 20237 | 125°C / 300 V _{RMS} |
| | PLTC | 105°C |
| 2) CSA International | C(RU) AWM I/II A/B FT1 | 125°C / 300 V _{RMS} |
| 3) CE: | EU Low Voltage Directive 2014/35/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) 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 | -50 to 125°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 34 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| Electrical Properties | (For Engineering purposes only) |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 22.6 pF/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 41 pF/ft @1 kHz, Nominal |
| 4) Inductance | 0.19 µH/ft, Nominal |
| 5) Conductor DCR | 10.2 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 8.9 Ω/1000ft @20°C, Nominal |

Other

| | |
|---|-------------------------------------|
| Packaging | Flange x Traverse x Barrel (inches) |
| a) Bulk(Made-to-order) | |
| Notes: | |
| a) Rosemount Part Number 08732-0061-1003 Rev AD. | |
| b) C of C showing measured Capacitance conductor to conductor and conductor to ground and Inductance required with each spool. | |
| c) Jacket color shall be within limits of RAL 5015/Pantone 3015. | |
| d) Measured Mutual Capacitance must not exceed 30pF/ft. | |
| e) Measured Ground Capacitance (between one conductor and other conductors connected to shield) must not exceed 59.5pF/ft. | |
| f) Measured Inductance must not exceed .20uH/ft. | |
| g) Measured nominal inductance of same or similar yielded .11uH/ft with only one data point. Statistically significant nominal inductance may need to be determined as necessary in the future. | |

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 840309

840309 , RoHS-Compliant Commencing With 12/19/2014 Production

Note: all colors and put-ups

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 (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitions and extents of the Directives. **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 11364-2014.

| 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) |
| Bis(2-ethylhexyl) phthalate (DEHP) | 0.1% by weight (1000 ppm) |
| Butyl benzyl phthalate (BBP) | 0.1% by weight (1000 ppm) |
| Dibutyl phthalate (DBP) | 0.1% by weight (1000 ppm) |
| Diisobutyl phthalate (DIBP) | 0.1% by weight (1000 ppm) |

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Authorized Signatory for the Alpha Wire:

A handwritten signature in black ink, appearing to read 'Dave Watson'.

Dave Watson, Director of Engineering & QA

2/9/2017

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