



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification

PART NO. V16108

Construction

| | | | | Diameters (In) | |
|-----------------------|-------------|---|-----------------------|----------------|-------|
| 1) Component 1 | | 4 X 1 COND | | | |
| a) Conductor | | 8 (133(7x19)/29) AWG TC | | 0.167 | |
| b) Insulation | | 0.061" Wall, Nom. XLPE | | 0.288 | |
| (1) Color(s) | | | | | |
| Cond | Color | Cond | Color | Cond | Color |
| 1 | BLACK#1 | 3 | BLACK#3 | | |
| 2 | BLACK#2 | 4 | GREEN OR GREEN/YELLOW | | |
| 2) Component 2 | | 1 X 1 PAIR | | | |
| a) Conductor | | 14 (41/30) AWG TC | | 0.074 | |
| b) Insulation | | 0.032" Wall, Nom. XLPE | | 0.142 | |
| (1) Separator | | Paper Tape, 10% Overlap, Min. | | | |
| (2) Color(s) | | | | | |
| Pair | Color | Pair | Color | Pair | Color |
| 1 | BLACK-WHITE | | | | |
| c) Pair | | 2/Cond Cabled Together | | | |
| (1) Twists: | | 2.8 Twists/foot (min) | | | |
| Individually Applied: | | | | | |
| d) Shield: | | Alum/Mylar Tape, 25% Overlap, Min. | | | |
| (1) Foil Direction | | Foil Facing In | | | |
| (2) Drain Wire | | 14 (41/30) AWG TC | | | |
| 3) Cable Assembly | | 5 Components Cabled | | | |
| a) Twists: | | 1.1 Twists/foot (min) | | | |
| 4) Shield: | | A/P/A Tape, 25% Overlap, Min. | | | |
| a) Drain Wire | | 4 x 14 (41/30) AWG TC | | | |
| b) Braid | | TC,85% Coverage, Min. | | | |
| 5) Jacket | | 0.085" Wall, Nom.,PVC | | 1.032+/- 0.034 | |
| a) Color(s) | | BLACK | | | |
| b) Jacket Separator | | Tissue Tape, 25% Overlap, Min. | | | |
| c) Print | | ALPHA WIRE- E64067-L P/N V16108 4/C 8 AWG RHW-2 1PR 14 AWG XHHW-2 SERIES V VFD CABLE W/ BRAKE PAIR 600V TYPE TC-ER (UL) XLPE/PVC 90C DRY/WET SUN RES DIR BUR 4/C 8 AWG 1PR 14 AWG--- LLXXXXXX CSA AWM I/II A/B 1000V 90C FT4 --- CE ROHS [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.] | | | |

Applicable Specifications

| | | |
|----------------------|-----------------------------------|------------------------------|
| 1) UL | | |
| a) Component 1 | RHW-2Wet/Dry | 90°C / 600 V _{RMS} |
| | XHHW-2Wet/Dry | 90°C / 600 V _{RMS} |
| b) Component 2 | XHHW-2Wet/Dry | 90°C / 600 V _{RMS} |
| c) Overall | TC | 90°C / 600 V _{RMS} |
| | EXPOSED RUN | |
| | DIRECT BURIAL | |
| | SUN RES | |
| 2) CSA International | | |
| a) Component 1 | AWM I A/B | 90°C / 1000 V _{RMS} |
| b) Component 2 | AWM I A/B | 90°C / 1000 V _{RMS} |
| c) Overall | AWM I/II A/B | 90°C / 1000 V _{RMS} |
| | FT4 | |
| 3) CE: | LVD 73/23/EEC Amendment 93/68/EEC | |

Environmental

| | |
|-----------------------------------|--|
| 1) EU Directive 2002/95/EC(RoHS): | |
| | All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture. |

Properties

| | |
|----------------------------------|---------------------------------|
| Physical & Mechanical Properties | |
| 1) Temperature Range | -40 to 90°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 786 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| 5) Direct Burial | Yes |
| Electrical Properties | (For Engineering purposes only) |
| 1) Voltage Rating | 1000 V _{RMS} |
| 2) Component 1 | |
| a) Characteristic Impedance | 62 |

Other

| | |
|------------------------|-------------------------------------|
| Packaging | Flange x Traverse x Barrel (inches) |
| a) Bulk(Made-to-order) | |

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: V16108

V16108, RoHS-Compliant Commencing With 10/1/2005 Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, 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 these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

| 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) | 0.1% by weight (1000 ppm) |
| Including Deca-BDE | 0.1% by weight (1000 ppm) |

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Authorized Signatory for the Alpha Wire Company:

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

Dave Watson, Director of Engineering & QA

11/2/2012

Mouser Electronics

Authorized Distributor

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