

Customer Specification

PART NO. V16016

Construction

| | | | | Diameters (In) | |
|---------------------|---------|---|-----------------------|----------------|-------|
| 1) Component 1 | | 4 X 1 COND | | | |
| a) Conductor | | 16 (26/30) AWG Tinned Copper | | 0.059 | |
| b) Insulation | | 0.046" Wall, Nom. XLPE | | 0.155 | |
| (1) Separator | | Paper Tape, 10% Overlap, Min. | | | |
| (2) Color(s) | | | | | |
| Cond | Color | Cond | Color | Cond | Color |
| 1 | BLACK#1 | 3 | BLACK#3 | | |
| 2 | BLACK#2 | 4 | GREEN OR GREEN/YELLOW | | |
| 2) Cable Assembly | | 4 Components Cabled | | | |
| a) Twists: | | 2.2 Twists/foot (min) | | | |
| 3) Shield: | | A/P/A Tape, 25% Overlap, Min. | | | |
| a) Drain Wire | | 16 (26/30) AWG Tinned Copper | | | |
| b) Braid | | Tinned Copper, 85% Coverage, Min. | | | |
| 4) Jacket | | 0.065" Wall, Nom., PVC | | 0.545+/- 0.016 | |
| a) Color(s) | | BLACK | | | |
| b) Jacket Separator | | Tissue Tape, 25% Overlap, Min. | | | |
| c) Print | | ALPHA WIRE-* P/N V16016 4C16 SHIELDED (UL) 1000V FLEXIBLE MOTOR SUPPLY CABLE OR WTTC 90C WET/DRY OR 600V TC-ER XHHW-2 CDRS XLPE/PVC 90C WET/DRY OR 4C16 C(UL) 600V CIC TC 90C WET/DRY FT4 (-25C) --- P-07-KA080006-MSHA --- LLXXXXXX CSA AWM I/II A/B 1000V 90C FT4 CE ROHS (SEQ FOOTAGE) * = 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 | RHW-2Wet/Dry | 90°C Dry / 90°C Wet / 600 V _{RMS} |
| | XHHW-2Wet/Dry | 90°C Dry / 90°C Wet / 600 V _{RMS} |
| b) Overall | TC | 90°C Dry / 90°C Wet / 600 V _{RMS} |
| | EXPOSED RUN | |
| | DIRECT BURIAL | |
| | SUN RES | |
| | 1000V Flexible Motor Supply Cable | |
| | WTTC | 90°C / 1000 V _{RMS} |
| 2) CSA International | AWM I/II A/B | 90°C / 1000 V _{RMS} |
| | FT4 | |
| | C(UL) TC | 90°C Dry / 90°C Wet / 600 V _{RMS} |
| | C(UL) CIC CONTROL | 90°C Dry / 90°C Wet / 600 V _{RMS} |
| | C(UL) -25C | |
| 3) Other | PMSHA Specification | |
| 4) CE: | EU Low Voltage Directive 2006/95/EC | |

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. |
| 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 | -40 to 90°C |

| | |
|-----------------------------|--|
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 116 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| 5) Direct Burial | Yes |
| 6) Copper Weight | 71 Lbs/1000Ft |
| 7) Cable Weight | 200 Lbs/1000Ft |
| Electrical Properties | (For Engineering purposes only) |
| 1) Voltage Rating | 600 V _{RMS} |
| 2) Characteristic Impedance | 90 Ω |
| 3) Inductance | 0.229 μH/ft, Nominal |
| 4) Mutual Capacitance | 21 pf/ft @1 kHz, Nominal |
| 5) Ground Capacitance | 38 pf/ft @1 kHz, Nominal |
| 6) Conductor DCR | 4.4 Ω/1000ft @20°C, Nominal |
| 7) OA Shield DCR | 1.4 Ω/1000ft @20°C, Nominal |
| 8) Current | 14.4 amps per conductor @30°C, Maximum |
| 9) Insulation Resistance | 300 MO/MFt (Est.) |

Other

| | |
|------------------------|---|
| 1) Packaging | |
| a) Bulk(Made-to-order) | ? |

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: V16016

V16016, RoHS-Compliant Commencing With 10/1/2005 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:

Dave Watson, Director of Engineering & QA

5/25/2021

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