

Customer Specification

PART NO. 45434

Construction

| | | | | | | Diameters (In) | | |
|-------------------|-------|------|--------|------|-------|---|--|--------------------|
| 1) Component 1 | | | | | | 4 X 1 COND | | |
| a) Conductor | | | | | | 16 (19/.0117) AWG Tinned Copper | | 0.059 |
| b) Insulation | | | | | | 0.032" Wall, Nom. TPE | | 0.123 |
| (1) Color Code | | | | | | Alpha Wire Color Code E | | |
| Cond | Color | Cond | Color | Cond | Color | | | |
| 1 | BLACK | 3 | RED | | | | | |
| 2 | BROWN | 4 | ORANGE | | | | | |
| 2) Cable Assembly | | | | | | 4 Components Cabled | | |
| a) Twists: | | | | | | 2.8 Twists/foot (min) | | |
| b) Orientation: | | | | | | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER | | |
| c) Core Wrap | | | | | | Nonwoven Polyester Tape, 20% Overlap, Min. | | |
| 3) Jacket | | | | | | 0.055" Wall, Nom.,TPE | | 0.412 (0.432 Max.) |
| a) Color(s) | | | | | | Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White | | |
| b) Ripcord | | | | | | 1 End 810 Denier Nylon | | |
| c) Print | | | | | | ALPHA WIRE-* P/N 45434 4C 16 AWG XTRAGUARD(R) 4 E324185 (UL) TYPE WTTC 90C DRY 1000V OR (UL) TYPE TC 90C DRY 600V SUN RES OR AWM 20328 105C 600V 16 AWG OR CRU AWM I/II A/B 125C 600V FT1 P-07-KA140023-MSHA CE ROHS (SEQ FOOTAGE) * = Factory Code | | |

Applicable Specifications

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|----------------------|---|------------------------------|
| 1) UL | AWM/STYLE 20328 | 105°C / 600 V _{RMS} |
| | TC | 90°C / 600 V _{RMS} |
| | WTTC | 90°C / 1000 V _{RMS} |
| | SUN RES | |
| 2) CSA International | C(RU) AWM I/II A/B FT1 | 125°C / 600 V _{RMS} |
| | SUN RES (Black only) | |
| 3) Other | PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED | |
| 4) CE: | EU Low Voltage Directive 2014/35/EU | |

Environmental

| | |
|--|---|
| 1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3): | |
| | This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item. |
| 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. |
| 3) California Proposition 65: | |
| | This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information. |

Properties

| Physical & Mechanical Properties | |
|----------------------------------|---|
| 1) Temperature Range | -50 to 125°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 82 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| Electrical Properties | |
| (For Engineering purposes only) | |
| 1) Voltage Rating | 600/1000 V _{RMS} |
| 2) Capacitance | 13.9 pF/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance | 0.2 µH/ft, Nominal |
| 4) Conductor DCR | 4.4 Ω/1000ft @20°C, Nominal |

Other

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|--|-------------------------------------|
| Packaging | Flange x Traverse x Barrel (inches) |
| a) Bulk(Made-to-order) | |
| Notes: | |
| a) Print legend will contain CSA SUN RES on black cables only. | |

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 45434

45434, RoHS-Compliant Commencing With 20/01/2017 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 Union (RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This document also certifies compliance with 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 restrictions. **Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control" requirements.

| 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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Dave Watson, Director of Engineering & QA 31/03/2025

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