

## Customer Specification

# PART NO. 5439/15

## Construction

|                   |        |      |        |      |              | Diameters (In)   |                    |
|-------------------|--------|------|--------|------|--------------|--|--------------------|
| 1) Component 1    |        |      |        |      |              | 15 X 1 COND  |                    |
| a) Conductor      |        |      |        |      |              | 16 (19/.0117) AWG Tinned Copper  | 0.059              |
| b) Insulation     |        |      |        |      |              | 0.032" Wall, Nom. PVC  | 0.123              |
| (1) Color Code    |        |      |        |      |              | Alpha Wire Color Code E  |                    |
| Cond              | Color  | Cond | Color  | Cond | Color        |  |                    |
| 1                 | BLACK  | 6    | GREEN  | 11   | WHITE/BLACK  |  |                    |
| 2                 | BROWN  | 7    | BLUE   | 12   | WHITE/BROWN  |  |                    |
| 3                 | RED    | 8    | VIOLET | 13   | WHITE/RED    |  |                    |
| 4                 | ORANGE | 9    | SLATE  | 14   | WHITE/ORANGE |  |                    |
| 5                 | YELLOW | 10   | WHITE  | 15   | WHITE/YELLOW |  |                    |
| 2) Cable Assembly |        |      |        |      |              | 15 Components Cabled   |                    |
| a) Twists:        |        |      |        |      |              | 1.4 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         |        |      |        |      |              | 0.063" Wall, Nom.,PVC  | 0.698 (0.729 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 5439/15 15C 16 AWG<br>XTRAGUARD(R) 1 (UL) MTW 600V OR AWM 2501 105C<br>600V OR AWM 21896 105C 600V SUN RES 60C OIL<br>VW-1 OR CRU AWM I/II A/B 105C 600V<br>FT4 CE ROHS (SEQ FOOTAGE)<br>* = Factory Code |                    |

## Applicable Specifications



| Physical & Mechanical Properties |   |
|----------------------------------|---|
| 1) Temperature Range             | -30 to 105°C                                    |
| 2) Bend Radius                   | 10X Cable Diameter                              |
| 3) Pull Tension                  | 307 Lbs, Maximum                                |
| 4) Sunlight Resistance           | Yes   |
| Electrical Properties            | (For Engineering purposes only)                 |
| 1) Voltage Rating                | 600 V <sub>RMS</sub>                            |
| 2) Capacitance                   | 25 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

| Packaging              | Flange x Traverse x Barrel (inches)         |
|------------------------|---|
| a) 1000 FT             | 36 x 14 x 12 Continuous length              |
| b) 500 FT              | 24 x 14 x 12 Continuous length              |
| c) 100 FT              | 18 x 9 x 8 Continuous length                |
| d) Bulk(Made-to-order) |   |
|                        | <i>[Spool dimensions may vary slightly]</i> |
|                        |   |

[www.alphawire.com](http://www.alphawire.com)

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Alpha 2011/65/EU RoHS 2015/863/EU  
RoHS SJ/T 11364-2014

|  |                         |
|--|-------------------------|
| Lead   | □□□□□□□□0.1% (1000 ppm) |
| Mercury  | □□□□□□□□0.1% (1000 ppm) |
| Cadmium  | □□□□□□□□0.01% (100 ppm) |
| Hexavalent Chromium  | □□□□□□□□0.1% (1000 ppm) |
| Polybrominated Biphenyls (PBB)                               | □□□□□□□□0.1% (1000 ppm) |
| Polybrominated Diphenyl Ethers (PBDE),<br>Including Deca-BDE | □□□□□□□□0.1% (1000 ppm) |
| Bis(2-ethylhexyl) phthalate (DEHP)                           | □□□□□□□□0.1% (1000 ppm) |
| Butyl benzyl phthalate (BBP)                                 | □□□□□□□□0.1% (1000 ppm) |
| Dibutyl phthalate (DBP)                                      | □□□□□□□□0.1% (1000 ppm) |
| Diisobutyl phthalate (DIBP)                                  | □□□□□□□□0.1% (1000 ppm) |

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