



# Customer Specification

## PART NO. 45273

### Construction

|                   |             | Diameters (In)   |             |                    |           |
|-------------------|-------------|--|-------------|--------------------|-----------|
| 1) Component 1    |             | 3 X 1 PAIR   |             |                    |           |
| a) Conductor      |             | 24 (7/32) AWG TC   |             | 0.024              |           |
| b) Insulation     |             | 0.016" Wall, Nom. TPE  |             | 0.056              |           |
| (1) Color Code    |             | Alpha Wire Color Code B  |             |                    |           |
| Pair              | Color       | Pair   | Color       | Pair               | Color     |
| 1                 | WHITE-BLACK | 2  | WHITE-BROWN | 3                  | WHITE-RED |
| c) Pair           |             | 2/Cond Cabled Together   |             |                    |           |
| (1) Twists:       |             | 8.0 Twists/foot (min)  |             |                    |           |
| 2) Cable Assembly |             | 3 Components Cabled  |             |                    |           |
| a) Twists:        |             | 5.3 Twists/foot (min)  |             |                    |           |
| b) Core Wrap      |             | Nonwoven Polyester Tape, 25% Overlap, Min.   |             |                    |           |
| 3) Shield:        |             | A/P/A Tape, 25% Overlap, Min.  |             |                    |           |
| a) Drain Wire     |             | 24 (7/32) AWG TC   |             |                    |           |
| b) Braid          |             | TC, 70% Coverage, Min.   |             |                    |           |
| 4) Jacket         |             | 0.042" Wall, Nom., TPE   |             | 0.314 (0.328 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 45273<br>XTRAGUARD(R) 4 RU AWM 20237 --- LLXXXXXX CSA AWM<br>I/II A/B 125C 300 VOLTS FT1<br>P-07-KA070017-MSHA CE<br>(SEQ FOOTAGE)<br>* = Factory Code<br>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.] |             |                    |           |

### Applicable Specifications

|                      |   |                              |
|----------------------|---|------------------------------|
| 1) UL                | AWM/STYLE 20237                             | 125°C / 300 V <sub>RMS</sub> |
| 2) CSA International | AWM I/II A/B                                | 125°C / 300 V <sub>RMS</sub> |
|                      | FT1   |                              |
| 3) Other             | PENNSYLVANIA BUREAU OF MINE SAFETY APPROVED |                              |
| 4) CE:               | EU Low Voltage Directive 2006/95/EC         |                              |

### Environmental

|                               |  |
|-------------------------------|--|
| 1) 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                                       | 29 Lbs, Maximum             |
| 4) Sunlight Resistance                                | Yes                         |
| Electrical Properties (For Engineering purposes only) |                             |
| 1) Voltage Rating                                     | 300 V <sub>RMS</sub>        |
| 2) Mutual Capacitance                                 | 14.4 pf/ft @1 kHz, Nominal  |
| 3) Ground Capacitance                                 | 26 pf/ft @1 kHz, Nominal    |
| 4) Characteristic Impedance                           | 109 Ω                       |
| 5) Inductance   | 0.22 μH/ft, Nominal         |
| 6) Conductor DCR                                      | 26 Ω/1000ft @20°C, Nominal  |
| 7) OA Shield DCR                                      | 3.2 Ω/1000ft @20°C, Nominal |

## Other

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Packaging</b>       | Flange x Traverse x Barrel (inches) |
| a) Bulk(Made-to-order) |                                     |

www.alphawire.com

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

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