



# Customer Specification

## PART NO. M243172

### Construction

|                       |           |  |             | Diameters (In)     |       |
|-----------------------|-----------|--|-------------|--------------------|-------|
| 1) Component 1        |           | 2 X 1 PAIR   |             |                    |       |
| a) Conductor          |           | 18 (7/26) AWG BC   |             | 0.030              |       |
| b) Insulation         |           | 0.010" Wall, Nom. PVC, Plenum Rated  |             | 0.068              |       |
| (1) Color Code        |           | Alpha Wire Color Code A1   |             |                    |       |
| Pair                  | Color     | Pair   | Color       | Pair               | Color |
| 1                     | BLACK-RED | 2  | BLACK-WHITE |                    |       |
| c) Pair               |           | 2/Cond Cabled Together   |             |                    |       |
| (1) Twists:           |           | 5.3 Twists/foot (min)  |             |                    |       |
| Individually Applied: |           |  |             |                    |       |
| d) Shield:            |           | Alum/Mylar Tape, 25% Overlap, Min.   |             |                    |       |
| (1) Foil Direction    |           | Foil Facing In   |             |                    |       |
| (2) Drain Wire        |           | 20 (7/28) AWG TC   |             |                    |       |
| 2) Cable Assembly     |           | 2 Components Cabled  |             |                    |       |
| a) Twists:            |           | 3.4 Twists/foot (min)  |             |                    |       |
| 3) Jacket             |           | 0.015" Wall, Nom.,PVC, Plenum Rated  |             | 0.276 (0.287 Max.) |       |
| a) Color(s)           |           | WHITE  |             |                    |       |
| b) Print              |           | ALPHA WIRE-* P/N M243172 2PR 18 AWG<br>EXXXXX CMP(UL) C(UL) 75C ROHS<br>* = Factory Code<br><i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i> |             |                    |       |

### Applicable Specifications

|                      |                |      |
|----------------------|----------------|------|
| 1) UL                | CMP            | 75°C |
| 2) CSA International | C(UL) TYPE CMP | 75°C |

### Environmental

### Properties

| Physical & Mechanical Properties |                             |
|----------------------------------|-----------------------------|
| 1) Temperature Range             | -20 to 75°C                 |
| 2) Bend Radius                   | 10X Cable Diameter          |
| 3) Pull Tension                  | 73 Lbs, Maximum             |
| Electrical Properties            |                             |
| (For Engineering purposes only)  |                             |
| 1) Voltage Rating                | 300 V <sub>RMS</sub>        |
| 2) Mutual Capacitance            | 36 pf/ft @1 kHz, Nominal    |
| 3) Ground Capacitance            | 65 pf/ft @1 kHz, Nominal    |
| 4) Characteristic Impedance      | 60 Ω                        |
| 5) Inductance                    | 0.21 μH/ft, Nominal         |
| 6) Conductor DCR                 | 6.1 Ω/1000ft @20°C, Nominal |
| 7) Component Shield DCR          | 9.2 Ω/1000ft @20°C, Nominal |

## Other

| Packaging              | Flange x Traverse x Barrel (inches)         |
|------------------------|---|
| a) 1000 FT             | 12 x 10 x 5 Continuous length               |
| b) 500 FT              | 12 x 4.5 x 3.5 Continuous length            |
| c) 100 FT              | 6.5 x 4 x 2.5 Continuous length             |
| d) Bulk(Made-to-order) |   |
|                        | <i>[Spool dimensions may vary slightly]</i> |

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