



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

# Customer Specification

## PART NO. M243473

### Construction

|                       |           |  |             |                    |       |
|-----------------------|-----------|--|-------------|--------------------|-------|
|                       |           |  |             | Diameters (In)     |       |
| 1) Component 1        |           | 2 X 1 PAIR   |             |                    |       |
| a) Conductor          |           | 22 (7/30) AWG BC   |             | 0.030              |       |
| b) Insulation         |           | 0.010" Wall, Nom. PVC, Plenum Rated  |             | 0.050              |       |
| (1) Color(s)          |           |  |             |                    |       |
| Pair                  | Color     | Pair   | Color       | Pair               | Color |
| 1                     | BLACK/RED | 2  | GREEN/WHITE |                    |       |
| c) Pair               |           | 2/Cond Cabled Together   |             |                    |       |
| (1) Twists:           |           | 8.0 Twists/foot (min)  |             |                    |       |
| Individually Applied: |           |  |             |                    |       |
| d) Shield:            |           | Alum/Mylar Tape, 25% Overlap, Min.   |             |                    |       |
| (1) Foil Direction    |           | Foil Facing In   |             |                    |       |
| (2) Drain Wire        |           | 22 (7/30) AWG TC   |             |                    |       |
| 2) Cable Assembly     |           | 2 Components Cabled  |             |                    |       |
| a) Twists:            |           | 4.4 Twists/foot (min)  |             |                    |       |
| 3) Jacket             |           | 0.015" Wall, Nom.,PVC, Plenum Rated  |             | 0.219 (0.230 Max.) |       |
| a) Color(s)           |           | WHITE  |             |                    |       |
| b) Print              |           | ALPHA WIRE-* P/N M243473 2PR 22 AWG<br>EXXXXXX CMP(UL) C(UL) 75C ROHS<br>* = Factory Code<br>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.] |             |                    |       |

### 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                  | 33 Lbs, Maximum                 |
| Electrical Properties            | (For Engineering purposes only) |
| 1) Voltage Rating                | 300 V <sub>RMS</sub>            |
| 2) Mutual Capacitance            | 51 pf/ft @1 kHz, Nominal        |
| 3) Ground Capacitance            | 92 pf/ft @1 kHz, Nominal        |
| 4) Characteristic Impedance      | 43 Ω                            |
| 5) Inductance                    | 0.18 μH/ft, Nominal             |
| 6) Conductor DCR                 | 15.4 Ω/1000ft @20°C, Nominal    |
| 7) Component Shield DCR          | 14.4 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> |

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

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

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

#### ALPHA WIRE - CONFIDENTIAL AND PROPRIETARY

Notice to persons receiving this document and/or technical information. This document is confidential and is the exclusive property of ALPHA WIRE, and is merely on loan and subject to recall by ALPHA WIRE at any time. By taking possession of this document, the recipient acknowledges and agrees that this document cannot be used in any manner adverse to the interests of ALPHA WIRE, and that no portion of this document may be copied or otherwise reproduced without the prior written consent of ALPHA WIRE. In the case of conflicting contractual provisions, this notice shall govern the status of this document. ©2013 ALPHA WIRE - all rights reserved.