

## Customer Specification

### PART NO. 58413

## Construction

|                   |           |                                                                                                                                                                                                        |             | Diameters (In)     |             |
|-------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------|-------------|
| 1) Component 1    |           | 3 X 1 PAIR                                                                                                                                                                                             |             |                    |             |
| a) Conductor      |           | 22 (7/30) AWG BC                                                                                                                                                                                       |             | 0.030              |             |
| b) Insulation     |           | 0.008" Wall, Nom. PVC, Plenum Rated                                                                                                                                                                    |             | 0.046              |             |
| (1) Color Code    |           | Alpha Wire Color Code A1                                                                                                                                                                               |             |                    |             |
| Pair              | Color     | Pair                                                                                                                                                                                                   | Color       | Pair               | Color       |
| 1                 | BLACK-RED | 2                                                                                                                                                                                                      | BLACK-WHITE | 3                  | BLACK-GREEN |
| c) Pair           |           | 2/Cond Cabled Together                                                                                                                                                                                 |             |                    |             |
| (1) Twists:       |           | 8.0 Twists/foot (min)                                                                                                                                                                                  |             |                    |             |
| 2) Cable Assembly |           | 3 Components Cabled                                                                                                                                                                                    |             |                    |             |
| a) Twists:        |           | 4.8 Twists/foot (min)                                                                                                                                                                                  |             |                    |             |
| 3) Shield:        |           | Alum/Mylar Tape, 25% Overlap, Min.                                                                                                                                                                     |             |                    |             |
| a) Foil Direction |           | Foil Facing Out                                                                                                                                                                                        |             |                    |             |
| b) Drain Wire     |           | 24 (7/32) AWG TC                                                                                                                                                                                       |             |                    |             |
| 4) Jacket         |           | 0.015" Wall, Nom.,PVC, Plenum Rated                                                                                                                                                                    |             | 0.197 (0.208 Max.) |             |
| a) Color(s)       |           | SLATE                                                                                                                                                                                                  |             |                    |             |
| b) Print          |           | ALPHA WIRE-* P/N 58413 3PR 22 AWG<br>SHIELDED 75C CMP(UL) C(UL) OR 75C (UL) CL2P<br>CE ROHS<br>* = Factory Code<br>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.] |             |                    |             |
|                   |           |                                                                                                                                                                                                        |             |                    |             |

## Applicable Specifications

|                      |                                     |      |
|----------------------|-------------------------------------|------|
| 1) UL                | CL2P                                | 75°C |
|                      | CMP                                 | 75°C |
| 2) CSA International | FT6                                 |      |
|                      | C(UL) TYPE CMP                      | 75°C |
| 3) CE:               | EU Low Voltage Directive 2006/95/EC |      |

# Environmental

|                                        |                                                                                                                                                                                                                                                                      |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1) CE: EU Directive 2011/65/EU(RoHS2): |                                                                                                                                                                                                                                                                      |
|                                        | This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for <a href="#">RoHS C of C</a> . |
| 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. For up-to-date information, please see <a href="#">Alpha's REACH SVHC Declaration</a> .                 |
| 3) 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             | -5 to 75°C                      |
| 2) Bend Radius                   | 10X Cable Diameter              |
| 3) Pull Tension                  | 37 Lbs, Maximum                 |
| Electrical Properties            | (For Engineering purposes only) |
| 1) Voltage Rating                | 300 V <sub>RMS</sub>            |
| 2) Mutual Capacitance            | 38 pf/ft @1 kHz, Nominal        |
| 3) Ground Capacitance            | 68 pf/ft @1 kHz, Nominal        |
| 4) Characteristic Impedance      | 57 Ω                            |
| 5) Inductance                    | 0.17 μH/ft, Nominal             |
| 6) Conductor DCR                 | 15.4 Ω/1000ft @20°C, Nominal    |
| 7) OA Shield DCR                 | 15.8 Ω/1000ft @20°C, Nominal    |
|                                  |                                 |

# Other

| Packaging  | Flange x Traverse x Barrel (inches)         |
|------------|---------------------------------------------|
| a) 1000 FT | 12 x 10 x 5 Continuous length               |
|            | <i>[Spool dimensions may vary slightly]</i> |
|            |                                             |

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

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# EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 58413

58413, RoHS-Compliant Commencing With 7/1/2004 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). This product also complies with UK - RoHS. The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

## Substance

Lead  
Mercury  
Cadmium  
Hexavalent Chromium  
Polybrominated Biphenyls (PBB)  
Polybrominated Diphenyl Ethers (PBDE) ,  
Including Deca-BDE  
Bis(2-ethylhexyl) phthalate (DEHP)  
Butyl benzyl phthalate (BBP)  
Dibutyl phthalate (DBP)  
Diisobutyl phthalate (DIBP)

## Maximum Control Value

0.1% by weight (1000 ppm)  
0.1% by weight (1000 ppm)  
0.01% by weight (100 ppm)  
0.1% by weight (1000 ppm )  
0.1% by weight (1000 ppm)  
  
0.1% by weight (1000 ppm)  
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0.1% by weight (1000 ppm)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/6/2024

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