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# Customer Specification

## PART NO. 5471L

### Construction

|                   |           | Diameters (In)   |       |                    |       |
|-------------------|-----------|--|-------|--------------------|-------|
| 1) Component 1    |           | 1 X 1 PAIR   |       |                    |       |
| a) Conductor      |           | 24 (7/32) AWG TC   |       | 0.024              |       |
| b) Insulation     |           | 0.010" Wall, Nom. Polypropylene(PP)  |       | 0.044              |       |
| (1) Color Code    |           | Alpha Wire Color Code K  |       |                    |       |
| Pair              | Color     | Pair   | Color | Pair               | Color |
| 1                 | BLACK-RED |  |       |                    |       |
| c) Pair           |           | 2/Cond Cabled Together   |       |                    |       |
| (1) Twists:       |           | 9.6 Twists/foot (min)  |       |                    |       |
| 2) Shield:        |           | Alum/Mylar Tape, 25% Overlap, Min.   |       |                    |       |
| a) Foil Direction |           | Foil Facing In   |       |                    |       |
| b) Drain Wire     |           | 24 (7/32) AWG TC   |       |                    |       |
| 3) Jacket         |           | 0.030" Wall, Nom., Low Smoke Zero Halogen (LSZH)   |       | 0.152 (0.162 Max.) |       |
| a) Color(s)       |           | SLATE  |       |                    |       |
| b) Print          |           | ALPHA WIRE-* P/N 5471L 1PR 24 AWG<br>EXXXXXX SHIELDED 75C (UL) C(UL) TYPE CMG-LS ---<br>LSZH CE 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                | CMG                                 | 75°C |
|                      | -LS Low Smoke                       |      |
| 2) CSA International | FT4                                 |      |
|                      | C(UL) TYPE CMG                      | 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 RoHS C of C. |
| 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 Alpha's REACH SVHC Declaration.                 |

## Properties

|   |                              |
|---|------------------------------|
| Physical & Mechanical Properties                      |                              |
| 1) Temperature Range                                  | -20 to 75°C                  |
| 2) Bend Radius  | 10X Cable Diameter           |
| 3) Pull Tension                                       | 10.6 Lbs, Maximum            |
| Electrical Properties (For Engineering purposes only) |                              |
| 1) Voltage Rating                                     | 300 V <sub>RMS</sub>         |
| 2) Mutual Capacitance                                 | 22.3 pf/ft @1 kHz, Nominal   |
| 3) Ground Capacitance                                 | 40 pf/ft @1 kHz, Nominal     |
| 4) Characteristic Impedance                           | 68 Ω                         |
| 5) Inductance   | 0.19 μH/ft, Nominal          |
| 6) Conductor DCR                                      | 25 Ω/1000ft @20°C, Nominal   |
| 7) OA Shield DCR                                      | 23.7 Ω/1000ft @20°C, Nominal |

## Other

|   |                                     |
|---|-------------------------------------|
| <b>Packaging</b>  | Flange x Traverse x Barrel (inches) |
| a) Bulk(Made-to-order)                                  |                                     |
| <b>Notes:</b>   |                                     |
| a) Flammability - Passes IEC 60332-1                    |                                     |
| b) Acid Gas Generation - Passes IEC 60754-1 and 60754-2 |                                     |
| c) Smoke Emission - Passes IEC 61034-2                  |                                     |

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

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207

Tel: 1-800-52 ALPHA (25742)

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# EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5471L

5471L , RoHS-Compliant Commencing With 3/1/2009 Production

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **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 11364-2006.

| Substance   | Maximum Control Value      |
|---|----------------------------|
| Lead  | 0.1% by weight (1000 ppm)  |
| Mercury   | 0.1% by weight (1000 ppm)  |
| Cadmium   | 0.01% by weight (100 ppm)  |
| Hexavalent Chromium   | 0.1% by weight (1000 ppm ) |
| Polybrominated Biphenyls (PBB)                                | 0.1% by weight (1000 ppm)  |
| Polybrominated Diphenyl Ethers (PBDE) ,<br>Including Deca-BDE | 0.1% by weight (1000 ppm)  |

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

8/6/2015

Alpha Wire  
711 Lidgerwood Ave.  
Elizabeth, NJ 07207  
Tel: 1-908-925-8000