

Customer Specification

PART NO. 75000

Construction

| | | | | Diameters (In) | |
|-------------------|---------------|---|---------------|-------------------------|-------|
| 1) Component 1 | | 2 X 1 PAIR | | | |
| a) Conductor | | 24 (SOLID) AWG BC | | 0.021 | |
| b) Insulation | | 0.007" Wall, Nom. FEP | | 0.034 | |
| (1) Color(s) | | | | | |
| Pair | Color | Pair | Color | Pair | Color |
| 1 | BLU - WHT/BLU | 2 | ORG - WHT/ORG | | |
| c) Pair | | 2/Cond Cabled Together | | | |
| (1) Lay Length: | | Various Lay | | | |
| 2) Cable Assembly | | 2 Components Bunch Cabled | | | |
| a) Twists: | | 2.4 Twists/foot | | | |
| 3) Jacket | | 0.035" Wall, Nom.,TPE | | 0.257 Avg. (0.270 Max.) | |
| a) Color(s) | | BLACK, RED | | | |
| b) Ripcord | | Nylon | | | |
| c) Print | | ALPHA WIRE-* P/N 75010 2PR 24 AWG XTRAGUARD(R) INDUSTRIAL ETHERNET (UL) C(UL) TYPE CMR 105C FT4 ANSI/TIA-568-C.2 CAT5E VERIFIED CE ROHS (SEQUENTIAL FOOTAGE MARKING) * = Factory Code | | | |
| | | | | | |

Applicable Specifications

| | | |
|----------------------|-------------------------------------|-------|
| 1) UL | CMR | 105°C |
| ? | FT4 | |
| 2) CSA International | C(UL) TYPE CMR | 105°C |
| ? | FT4 | |
| 3) CE: | EU Low Voltage Directive 2014/35/EU | |

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 | -50 to 105°C |
| 2) Bend Radius | 4X Cable Diameter |
| 3) Pull Tension | 12.7 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| Electrical Properties | (For Engineering purposes only) |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Characteristic Impedance | 100 ω +/- 15 |
| 3) Mutual Capacitance | 5.6 nf/100m Max |
| 4) Velocity of Propagation | 70 % Nom. |
| 5) Conductor DCR | 9.38 ω /100m @20°C, Max |
| 6) Skew | 45 ns/100m, Max |
| 7) Pair to Ground Unbalance | 330 pf/100m, Max |
| 8) DC Unbalance of a Pair | 5%, Max |
| 9) Insertion Loss, Max dB/100m | 2.4 @ 1 MHz |
| | 4.9 @ 4 MHz |
| | 6.9 @ 8 MHz |
| | 7.8 @ 10 MHz |
| | 9.9 @ 16 MHz |
| | 11.1 @ 20 MHz |
| | 12.5 @ 25 MHz |
| | 14.1 @ 31.25 MHz |
| | 20.4 @ 62.5 MHz |
| | 26.4 @ 100 MHz |

Other

| Packaging | Flange x Traverse x Barrel (inches) |
|------------|---|
| a) 1000 FT | 16 x 11 x 8 Continuous length |
| b) 500 FT | 12 x 4.5 x 3.5 Continuous length |
| | <i>[Spool dimensions may vary slightly]</i> |

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 75000

75000, RoHS-Compliant Commencing With 3/21/2012 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)

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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 4/27/2024

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