## ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 75012 Issue: 2

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A. Construction <u>Diameters (In)</u>

 Component 1
 2 X 1 PAIR

 a) Conductor
 24 (SOLID) AWG BC
 0.023

 b) Insulation
 0.014" Wall, Nom. Polypropylene (PP)
 0.050

(1) Color(s)

ſ	Pair	Color	Pair	Color	Pair	Color
ſ	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: 4.0 Twists/foot

b) Core Wrap: Clear Mylar Tape, 25% Overlap, Min. Shield: A/P/A Tape, 25% Overlap, Min.

a) Drain Wire 26 (SOLID) AWG TC b) Braid TC,70% Coverage, Min. Jacket 0.035 Wall, Nom. TPE

a) Color(s) BLACK

b) Ripcord Nylon

c) Print ALPHA WIRE-\* P/N 75012 2PR 24 AWG

XTRA-GUARD(R) INDUSTRIAL ETHERNET (UL) C(UL) TYPE

CMR 75C FT4 ANSI/TIA-568-C.2 CAT5E VERIFIÉD ROHS (SEQUENTIAL FOOTAGE MARKING)

\* = Factory Code

B. Applicable Specifications

1) UL CMR 75°C FT4
2) CSA International C(UL) TYPE CMR 75°C FT4

3) CE: LVD 73/23/EEC Amendment 93/68/EEC

## C. Environmental Compliance

1) EU Directive 2002/95/EC(RoHS):

All materials used in the manufacture and packaging of this part must meet the requirement of EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment.

0.325 (0.345 Max.)

## D. Physical & Mechanical Properties

Temperature Range
 Bend Radius
 Pull Tension
 50 to 105°C
 8X Cable Diameter
 21.1 Lbs, Maximum

4) Sunlight Resistance Yes

E. Electrical Properties (For Engineering purposes only)

300 V<sub>RMS</sub> Voltage Rating 1) Characteristic Impedance 100 Ω +/- 15 2) Mutual Capacitance 5.6 nF/100m Max 3) 4) Velocity of Propagation 70 % Nom. 5) Conductor DCR 9.38 Ω/100m Max 6) Skew 45 ns/100m Max 7) Pair to Ground Unbalance 330 pF/100m Max

8) DC Unbalance of a Pair 5% Max

This specification outlines the requirements for the product(s) described herein. Deviations from this specification are not permitted without the written authorization of the Alpha Wire Engineering Department. All finished products will be inspected to the specification and noncompliance or unauthorized deviations will be cause for rejection and return of product.

If vendor certifying agency requirements are in conflict with this document, it is incumbent upon the vendor to notify the Alpha Wire Engineering

Department and mark up differences on this document and submit them for review and approval prior to any production. Be advised that product legend information and product legend information must be in concert; both are the responsibility of the vendor.

It is the responsibility of the vendor to insure that this product meets the requirements of subservient certifying agency documents even though they are not

It is the **responsibility of the vendor** to insure that this product meets the requirements of subservient certifying agency documents even though they are no directly noted herein.

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9) Insertion Loss	2.4 (Max dB/100m) @ 1 MHz 4.9 (Max dB/100m) @ 4 MHz 6.9 (Max dB/100m) @ 8 MHz 7.8 (Max dB/100m) @ 10 MHz 9.9 (Max dB/100m) @ 16 MHz 11.1 (Max dB/100m) @ 20 MHz 12.5 (Max dB/100m) @ 25 MHz 14.1 (Max dB/100m) @ 31.25 MHz 20.4 (Max dB/100m) @ 62.5 MHz 26.4 (Max dB/100m) @ 100 MHz			
F. Other	20.1 (Max 42/100111) @ 100 1111.12			
1) Packaging a) 1000 FT b) 500 FT	Flange x Traverse x Barrel (inches) 18 x 10.5 x 8 Continuous length 12.5 x 9 x 8 Continuous length			

[Spool dimensions may vary slightly]

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