ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 75001 Issue: 2

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

 1) Component 1
 2 X 1 PAIR

 a) Conductor
 24 (SOLID) AWG BC
 0.021

 b) Insulation
 0.009" Wall, Nom. FEP
 0.039

(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: 4.0 Twists/foot

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

a) Foil Direction Foil Facing In
b) Drain Wire 24 (7/32) AWG TC

4) Jacket 0.035 Wall, Nom. TPE 0.300 (0.320 Max.)

a) Color(s) BLACKb) Ripcord Nylon

c) Print ALPHA WIRE-* P/N 75001 2PR 24 AWG

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

CMR 105C FT⁴ ÁNSI/TIA-568-C.2 CAT5E VERIFIED ROHS (SEQUENTIAL FOOTAGE MARKING)

* = Factory Code

B. Applicable Specifications

1) UL CMR 105°C FT4
2) CSA International C(UL) TYPE CMR 105°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.

D. Physical & Mechanical Properties

Temperature Range
 Bend Radius
 Pull Tension
 50 to 125°C
 8X Cable Diameter
 16.2 Lbs, Maximum

4) Sunlight Resistance Yes

E. Electrical Properties (For Engineering purposes only)

300 V_{RMS} 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

B) 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

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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 M 20.4 (Max dB/100m) @ 62.5 MH 26.4 (Max dB/100m) @ 100 MH	: 1Hz Hz		
f. Other 1) Packaging	Flange x Traverse x Barrel (inche	,		
a) 1000 FT b) 500 FT	18 x 10.5 x 8 Continuous length [Spool dimensions may vary slightly]	I		

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