ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 75020 Issue: 5

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A. Construction Diameters (In)

Component 1 2 X 1 PAIR

Conductor 24 (7/32) AWG BC 0.024 0.0075" Wall, Nom. Polypropylene (PP) Insulation 0.039

(1) Color(s)

Pair	Color	Pair	Color	Pair	Color
1	BLU - WHT/BLU	2	ORG – WHT/ORG		

2/Cond Cabled Together Pair c)

(1) Lay Length: Various Lay

Cable Assembly 2 Components Bunch Cabled

a) Twists: 2.4 Twists/foot

Jacket 0.035 Wall, Nom, TPE 0.236 Avg. (0.243 Max.)

BLACK a) Color(s) Ripcord b) Nylon

Print ALPHA WIRE-* P/N 75020 2PR 24 AWG

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

CMR 75C FT4 ANSI/TIA-568-C.2 CAT5E VERIFIED

ROHS CE (SEQUENTIAL FOOTAGE MARKING)

* = Factory Code

B. Applicable Specifications

1) UL 75°C CMR FT4 75°C

CSA International C(UL) TYPE CMR

FT4

EU Low Voltage Directive 2006/95/EC

Environmental Compliance

1) CE: EU Directive 2011/65/EU(RoHS2):

> All materials used in the manufacture and packaging of this part must meet the requirements of European Directive 2011/65/EU regarding the restriction of use of

certain hazardous substances in electrical and electronic equipment.

REACH Regulation (EC 1907/2006):

This product may not contain any of the substances listed in the latest issue European Union's REACH Substance of Very High Concern (SVHC) candidate list in excess of 0.1% mass of the item.

D. Physical & Mechanical Properties

Temperature Range -50 to 105°C Bend Radius 2) 4X Cable Diameter **Pull Tension** 14.1 Lbs, Maximum

Sunlight Resistance 4)

E. Electrical Properties (For Engineering purposes only)

Voltage Rating 300 V_{RMS} Characteristic Impedance 100 Ω +/- 15 3) Mutual Capacitance 5.6 nF/100m Max Velocity of Propagation 4) 70 % Nom.

Conductor DCR 9.38 Ω/100m Max 5) Skew 45 ns/100m Max 6) Pair to Ground Unbalance 7) 330 pF/100m Max

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 and product label 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 directly noted herein. All information contained herein is confidential. Its use is restricted to authorized Alpha Wire Company personnel or authorized vendors of the Alpha Wire

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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) @ 25 MHz 12.5 (Max dB/100m) @ 31.25 M 20.4 (Max dB/100m) @ 62.5 M 26.4 (Max dB/100m) @ 100 MHz	z ЛНz Hz					
F.	. Other							
	1) Packaging a) 1000 FT b) 500 FT	Flange x Traverse x Barrel (inche 18 x 10.5 x 8 Continuous length 12.5 x 9 x 8 Continuous length [Spool dimensions may vary slightly]	n [^]					

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