## **ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION**

Part Number: 669333 Issue: 5

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A. Construction Diameters (In)

1) Component 1 1 X 2 PAIR

24 (7/32) AWG BC Conductor 0.024 Insulation 0.011" Wall, Nom. Polypropylene(PP) 0.045

(1) Color(s)

P	air	Color	Pair	Color	Pair	Color
1		BLU - WHT/BLU	2	ORG - WHT/ORG		

2/Cond Cabled Together Pair c)

BLU – WHT/BLU: 0.415" LH Lay (1) Lay Length: ORG - WHT/ORG: 0.549" LH Lay

Cabling 2 PAIR Cabled (1) Twists: 4.0 Twists/foot (min) Jacket e)

0.020" Wall, Nom., PVC 0.200 (0.210 Max.)

(1) Color(s) **BLACK** 

Alum/Mylar Tape, 25% Overlap, Min. 2) Shield:

a) Foil Direction Foil Facing Out

Braid TC,90% Coverage, Min. b)

0.033" Wall, Nom., TPE 0.310 (0.320 Max.) Jacket

a) Color(s) BLACK

ALPHA WIRE-\* P/N 669333 2PR 24 AWG Print b) RU AWM 20626 80C 300V CAT5E PATCH

**ROHS** (SEQUENTIAL #) FT

\* = Factory Code

B. Applicable Specifications

1) UL

Component 1 AWM/STYLE 10152 80°C / 300 V<sub>RMS</sub> a) Overall 80°C / 300 VRMS b) AWM/STYLE 20626 TIA-568-C.2 Category 5e

TIA C. Environmental Compliance

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

> > 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.

2) 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 8X Cable Diameter 2) Bend Radius 3) **Pull Tension** 20.7 Lbs, Maximum

E. Electrical Properties (For Engineering purposes only)

1) Voltage Rating  $300 V_{RMS}$ Characteristic Impedance 100 Ω +/- 15 5.6 nF/100m Max Mutual Capacitance Velocity of Propagation 4) 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 Transfer Impedance 100 mΩ/m Max

9) DC Unbalance of a Pair 5% Max

10) Insertion Loss 2.4 (Max dB/100m) @ 1 MHz

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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

1) Packaging Flange x Traverse x Barrel (inches) a) 1000 FT 16 x 11 x 8 Continuous length

b) Bulk Ft. 16 x 11 x 8 Continuous length, 400 ft. Min, 1200 ft. Max

This Design is custom, Made-To-Order & once accepted, the order is NON-CANCELLABLE & NON-RETURNABLE.

Accepted By:	Date:
Company:	Title:

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