ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 518377		**Issue:**	**1**
Page 1 of 2 Pages		**Issue Date:**	**4/11/2014**
		Effective Date:	**6/6/2014**

A. Construction — **Diameters (In)**

1) Component 1	4 X 1 PAIR		
a) Conductor	24 (SOLID) AWG Bare Copper		0.022
b) Insulation	0.012" Wall, Nom. Polypropylene(PP)		0.046
(1) Color(s)			

Pair	Color	Pair	Color	Pair	Color
1	BLUE - WHITE/BLUE	3	GREEN - WHITE/GREEN		
2	ORANGE - WHITE/ORANGE	4	BROWN - WHITE/BROWN		

c) Pair	2/Cond Cabled Together	
(1) Twists:	13.7 Twists/foot (approx.)	
2) Cable Assembly	4 Components Cabled	
a) Twists:	3.0 Twists/foot (min)	
b) Core Wrap	Clear Mylar Tape, 25% Overlap, Min.	
3) Shield:	Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction	Foil Facing In	
b) Drain Wire	24 (7/32) AWG Tinned Copper	
4) Jacket	0.032" Wall, Nom.,TPE	0.265 (0.280 Max.)
a) Color(s)	BLACK	
b) Ripcord	1 End 810 Denier Nylon	
c) Print	ALPHA WIRE-* P/N 518377 4PR 24 AWG RU AWM STYLE 20626 80C 600V OR ANSI/TIA-568-C.2 CAT5E ROHS CE (SEQ FOOTAGE) (LOT #) (DATE CODE) * = Factory Code	

B. Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 10866	80°C / 600 V_{RMS}
b) Overall	AWM/STYLE 20626	80°C / 600 V_{RMS}
2) CE:	EU Low Voltage Directive 2006/95/EC	

C. Environmental Compliance

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.

D. Physical & Mechanical Properties

1) Temperature Range	-50 to 80°C
2) Bend Radius	8X Cable Diameter
3) Pull Tension	29 Lbs, Maximum
4) Sunlight Resistance	Yes
5) Cable Weight	39 Lbs/1000Ft

E. Electrical Properties (For Engineering purposes only)

1) Voltage Rating	600 V_{RMS}
2) Characteristic Impedance	100 Ω +/- 15
3) Mutual Capacitance	5.6 nF/100m Max
4) Velocity of Propagation	70 % Nom.

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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
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

1)	Packaging	Flange x Traverse x Barrel (inches)
	a) 1000 FT	12 x 12 x 3.5 Continuous length
		[Spool dimensions may vary slightly]

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

Accepted By:	Date:
Company:	Title: