

# ALPHA WIRE

## CUSTOMER PRODUCT SPECIFICATION

Part Number: B961033  
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**Issue:** 2  
**Issue Date:** 1/4/2013  
**Effective Date:** 1/18/2013

## A. Construction

1)	Component 1	3 X 1 PAIR	
a)	Conductor	28 (7/36) AWG TC	0.38
b)	Insulation	0.25 Wall, Nom. PVC, Semi Rigid	0.89
	(1) Color Code	Alpha Wire Color Code B	

Pair	Color	Pair	Color	Pair	Color
1	WHITE-BLACK	2	WHITE-BROWN	3	WHITE-RED

c)	Pair	2/Cond Cabled Together	
	(1) Twists:	39.4 Twists/meter (min)	
2)	Cable Assembly	3 Components Cabled	
	a) Twists:	26.2 Twists/meter (min)	
	b) Core Wrap	Clear Mylar Tape, 25% Overlap, Min.	
3)	Shield	TC BRAID Shield, 85% Coverage, Min.	
	a) Drain Wire	28 (7/36) AWG TC	
4)	Jacket	0.81 Wall, Nom., PVC	5.41 (5.75 Max.)
	a) Color(s)	GREY	
	b) Ripcord	1 End 810 Denier Nylon	
	c) Print	ALPHA WIRE-* P/N B961033	
		0.09MM2 (28AWG) (UL) TYPE CM 105C OR AWM 2464	

[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

## B. Applicable Specifications

1) UL	Component 1	AWM/STYLE 10002	105°C / 300 V <sub>RMS</sub>
	Overall	AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>
		CM	105°C
		VW-1	
2) CSA International		CMG	105°C
		FT4	
3) IEC		EN 60332-1 Flame Behavior	
		EN 60332-2 Flame Behavior	
4) 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

Physical & Mechanical Properties	
1) Temperature Range	-30 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	13.6 Lbs, Maximum
4) Sunlight Resistance	Yes

## 4) Sunlight Resistance

Electrical Properties		(For Engineering purposes only)
1)	Voltage Rating	300 V <sub>RMS</sub>
2)	Mutual Capacitance	68.88 pF/m @ 1 kHz, Nominal

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3) Ground Capacitance	124.64 pf/m @1 kHz, Nominal
4) Characteristic Impedance	90 Ω
5) Inductance	0.7216 µH/m, Nominal
6) Conductor DCR	219.76 Ω/Km @20°C, Nominal
7) OA Shield DCR	16.072 Ω/Km @20°C, Nominal

**F. Other**

1) Packaging	Flange x Traverse x Barrel (inches)
a) 3280 FT	20 x 11 x 8 Continuous length
b) 1640 FT	16 x 11 x 8 Continuous length
c) 328 FT	12 x 4.5 x 3.5 Continuous length
d) 164 FT	12 x 4.5 x 3.5 Continuous length

*[Spool dimensions may vary slightly]*

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