ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: B956024	**Issue: 1**
Page 1 of 2 Pages	**Issue Date: 8/26/2010**
	Effective Date: 10/21/2010

A. Construction — **Diameters (mm)**

1)	Component 1	2 X 1 COND	
a)	Conductor	18 (16/30) AWG TC	1.19
b)	Insulation	0.41 Wall, Nom. PVC	2.01
(1)	Color Code	Alpha Wire Color Code D	

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	RED		

2)	Cable Assembly	2 Components Cabled	
a)	Twists:	22.5 Twists/meter (min)	
b)	Core Wrap	Clear Mylar Tape, 25% Overlap, Min.	
3)	Shield:	A/P/A Tape, 25% Overlap, Min.	
a)	Drain Wire	20 (7/28) AWG TC	
b)	Braid	TC,70% Coverage, Min.	
4)	Jacket	0.81 Wall, Nom.,PVC	6.43 (6.69 Max.)
a)	Color(s)	GREY	
b)	Ripcord	1 End 810 Denier Nylon	
c)	Print	ALPHA WIRE-* P/N B956024	
		0.81MM2 (18AWG) (UL) TYPE CM 105C OR AWM 2464	
		VW-1 CE ROHS (SEQ METERS)	
		* = Factory Code	

B. Applicable Specifications

1)	UL		
a)	Component 1	AWM/STYLE 1569	105°C / 300 V_{RMS}
b)	Overall	AWM/STYLE 2464	80°C / 300 V_{RMS}
		CM	105°C
		VW-1	
2)	IEC	EN 60332-1 Flame Behavior	
		EN 60332-2 Flame Behavior	
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 of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.

2) REACH Regulation (EC 1907/2006):
This product does not contain any of the substances listed on the European Union REACH Substance of Very High Concern (SVHC) candidate list, dated 30 March 2010, in excess of a concentration of 0.1% weight/weight.

D. Physical & Mechanical Properties

1)	Temperature Range	-30 to 105°C
2)	Bend Radius	10X Cable Diameter
3)	Pull Tension	38 Lbs, Maximum
4)	Sunlight Resistance	Yes

E. Electrical Properties (For Engineering purposes only)

1)	Voltage Rating	300 V_{RMS}
2)	Capacitance	186.96 pf/m @1 kHz, Nominal Conductor to Conductor
3)	Ground Capacitance	337.84 pf/m @1 kHz, Nominal
4)	Characteristic Impedance	40 Ω
5)	Inductance	0.5904 µH/m, Nominal
6)	Conductor DCR	23.616 Ω/Km @20°C, Nominal
7)	OA Shield DCR	9.512 Ω/Km @20°C, Nominal

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F. Other

1) Packaging		Flange x Traverse x Barrel (inches)
	a) 3280 FT	24 x 14 x 12 Continuous length
	b) 1640 FT	18 x 12 x 8 Continuous length
	c) 328 FT	12 x 4.5 x 3.5 Continuous length
	d) 164 FT	10 x 4 x 3.5 Continuous length

[Spool dimensions may vary slightly]

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