

Customer Specification

PART NO. 6410

Construction

		Diameters (In)			
1) Component 1		18 X 1 PAIR			
a) Conductor		24 (7/32) AWG TC		0.024	
b) Insulation		0.016" Wall, Nom. Polyethylene(PE)		0.056	
(1) Color Code		Alpha Wire Color Code M			
Pair	Color	Pair	Color	Pair	Color
1	BLUE/WHITE - WHITE/BLUE	7	ORANGE/RED - RED/ORANGE	13	GREEN/BLACK - BLACK/GREEN
2	ORANGE/WHITE - WHITE/ORANGE	8	GREEN/RED - RED/GREEN	14	BROWN/BLACK - BLACK/BROWN
3	GREEN/WHITE - WHITE/GREEN	9	BROWN/RED - RED/BROWN	15	SLATE/BLACK - BLACK/SLATE
4	BROWN/WHITE - WHITE/BROWN	10	SLATE/RED - RED/SLATE	16	BLUE/YELLOW - YELLOW/BLUE
5	SLATE/WHITE - WHITE/SLATE	11	BLUE/BLACK - BLACK/BLUE	17	ORANGE/YELLOW - YELLOW/ORANGE
6	BLUE/RED - RED/BLUE	12	ORANGE/BLACK - BLACK/ORANGE	18	GREEN/YELLOW - YELLOW/GREEN
c) Pair		2/Cond Cabled Together			
(1) Twists:		8.0 Twists/foot (min)			
2) Cable Assembly		18 Components Cabled			
a) Twists:		1.8 Twists/foot (min)			
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing Out			
b) Drain Wire		24 (7/32) AWG TC			
c) Braid		TC,65% Coverage, Min.			
4) Jacket		0.047" Wall, Nom.,PVC		0.580 (0.606 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N 6410 18PR 24 AWG SHIELDED 75C (UL) C(UL) TYPE CM OR AWM 2919 LOW VOLTAGE COMPUTER CABLE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

Applicable Specifications

1) UL	AWM/STYLE 2919	80°C / 30 V _{RMS}
	CM	75°C
	VW-1	
2) CSA International	C(UL) TYPE CM	75°C

Environmental

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) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	139 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Characteristic Impedance	100
3) Mutual Capacitance	15.5 pf/ft @1 kHz, Nominal
4) Ground Capacitance	27.5 pf/ft @1 kHz, Nominal
5) Conductor DCR	26 /1000ft @20°C, Nominal
6) OA Shield DCR	2 /1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	30 x 14 x 12 Continuous length
b) 500 FT	24 x 14 x 12 Continuous length
c) 100 FT	16 x 11 x 8 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:6410

6410 , RoHS-Compliant Commencing With3/1/2005Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE) Including Deca-BDE	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

1/21/2011