



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification

PART NO. 6411

Construction

			Diameters (In)		
1) Component 1		25 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	10	SLATE/RED - RED/SLATE	19	BROWN/YELLOW - YELLOW/BROWN
2	ORANGE/WHITE - WHITE/ORANGE	11	BLUE/BLACK - BLACK/BLUE	20	SLATE/YELLOW - YELLOW/SLATE
3	GREEN/WHITE - WHITE/GREEN	12	ORANGE/BLACK - BLACK/ORANGE	21	BLUE/VIOLET - VIOLET/BLUE
4	BROWN/WHITE - WHITE/BROWN	13	GREEN/BLACK - BLACK/GREEN	22	ORANGE/VIOLET - VIOLET/ORANGE
5	SLATE/WHITE - WHITE/SLATE	14	BROWN/BLACK - BLACK/BROWN	23	GREEN/VIOLET - VIOLET/GREEN
6	BLUE/RED - RED/BLUE	15	SLATE/BLACK - BLACK/SLATE	24	BROWN/VIOLET - VIOLET/BROWN
7	ORANGE/RED - RED/ORANGE	16	BLUE/YELLOW - YELLOW/BLUE	25	SLATE/VIOLET - VIOLET/SLATE
8	GREEN/RED - RED/GREEN	17	ORANGE/YELLOW - YELLOW/ORANGE		
9	BROWN/RED - RED/BROWN	18	GREEN/YELLOW - YELLOW/GREEN		
c) Pair		2/Cond Cabled Together			
(1) Twists:		8.0 Twists/foot (min)			
2) Cable Assembly		25 Components Cabled			
a) Twists:		1.5 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		0.671 (0.701 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N 6411 25PR 24 AWG SHIELDED 75C (UL) C(UL) TYPE CM OR AWM 2919 LOW VOLTAGE COMPUTER CABLE ROHS * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>			

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	188 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	2.2 /1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	36 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:6411

6411 , 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