



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

# Customer Specification

## PART NO. 6396

### Construction

			Diameters (In)				
1) Component 1		12 X 1 PAIR					
a) Conductor		28 (7/36) AWG TC			0.015		
b) Insulation		0.010" Wall, Nom. Polyethylene(PE)			0.035		
(1) Color Code		Alpha Wire Color Code K					
Pair	Color	Pair	Color	Pair	Color		
1	BLACK-RED	5	BLACK-YELLOW	9	RED-GREEN		
2	BLACK-WHITE	6	BLACK-BROWN	10	RED-BLUE		
3	BLACK-GREEN	7	BLACK-ORANGE	11	RED-YELLOW		
4	BLACK-BLUE	8	RED-WHITE	12	RED-BROWN		
c) Pair		2/Cond Cabled Together					
(1) Twists:		12.0 Twists/foot (min)					
2) Cable Assembly		12 Components Cabled					
a) Twists:		3.4 Twists/foot (min)					
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.					
a) Foil Direction		Foil Facing Out					
b) Drain Wire		28 (7/36) AWG TC					
c) Braid		TC,90% Coverage, Min.					
4) Jacket		0.035" Wall, Nom.,PVC		0.335 (0.356 Max.)			
a) Color(s)		SLATE					
b) Print		ALPHA WIRE-* P/N 6396 12PR 28 AWG SHIELDED 75C (UL) TYPE CL2 OR AWM 2960 LL701765 CSA TYPE CMH 60C FT1 ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]					

### Applicable Specifications

1) UL	AWM/STYLE 2960	60°C / 30 V <sub>RMS</sub>
	CL2	75°C
	VW-1	
2) CSA International	CMH	60°C
	FT1	

### 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) 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.
3) 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 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	43 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V <sub>RMS</sub>
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	66 /1000ft @20°C, Nominal
6) OA Shield DCR	2 /1000ft @20°C, Nominal

## Other

<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) 1000 FT	18 x 12 x 8 Continuous length
b) 500 FT	16 x 11 x 8 Continuous length
c) 100 FT	12 x 10 x 5 Continuous length
<i>[Spool dimensions may vary slightly]</i>	
<b>Notes:</b>	
a) CSA File Number may also be LL49185	

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## RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:6396

6396 , RoHS-Compliant Commencing With 3/1/2005 Production

*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	0.01% 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)	0.1% by weight (1000 ppm)
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

11/1/2012

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