



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Customer Specification

## PART NO. 6450

### Construction

				Diameters (In)	
1) Component 1		2 X 1 COND			
a) Conductor		18 (7/26) AWG TC		0.046	
b) Insulation		0.025" Wall, Nom. FRPP		0.096	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	BLUE	2	WHITE		
2) Cable Assembly		2 Components Cabled			
a) Twists:		6.9 Twists/foot (min)			
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing Out			
b) Drain Wire		20 (7/28) AWG TC			
c) Braid		TC,55% Coverage, Min.			
4) Jacket		0.053" Wall, Nom.,PVC		0.324+/- 0.006	
a) Color(s)		BLUE			
b) Print		ALPHA WIRE P/N 6450 EXXXXX 1PR18 SHIELDED (UL) 600V 75C DRY SUN RES TYPE TC OR PLTC OR ITC OR CMG OR C(UL) CMG --- P-MSHA (MSHA #) CE ROHS (SEQ FOOTAGE EVERY 2 FT) <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>			

### Applicable Specifications

1) UL	TC	75°C / 600 V <sub>RMS</sub>
	PLTC	75°C
	ITC	75°C
	CMG	75°C
	SUN RES	
2) CSA International	CMG	75°C
	FT4	
3) Other	PMSHA Specification	
4) CE:	EU Low Voltage Directive 2006/95/EC	

### Environmental

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.

## Properties

Physical & Mechanical Properties	
1) Temperature Range	-40 to 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	40 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	600 V <sub>RMS</sub>
2) Characteristic Impedance	78 Ω +/- 5
3) Inductance	0.12 μH/ft, Nominal
4) Mutual Capacitance	19.5 pf/ft @1 kHz, Nominal
5) Velocity of Propagation	65 %
6) Conductor DCR	6.9 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	3.2 Ω/1000ft @20°C, Nominal
8) Attenuation, Max dB/100ft	0.5 @ 1 MHz
	2 @ 10 MHz
	3.8 @ 50 MHz
	5.4 @ 100 MHz
	7.6 @ 200 MHz
	10.7 @ 400 MHz

## Other

<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) 1000 FT	18 x 12 x 8 Continuous length
b) 500 FT	12 x 12 x 3.5 Continuous length
c) 100 FT	12 x 4.5 x 3.5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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# EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6450

6450 , RoHS-Compliant Commencing With 7/1/2008 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014.

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) ,	
Including Deca-BDE	0.1% by weight (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% by weight (1000 ppm)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA

5/3/2017

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