

# **Customer Specification**

## **PART NO. 6458**

#### Construction

					Diame	ters (ln)		
1) Component 1		1 X 1 COAX						
a) Conductor		18 (SOLID) AWG BCW			0.040	0.040		
b) Insulation		0.069" Wall, Nom. Polyethylene, Foam			0.178	0.178		
(1) Color(s)								
Cond	Color		Cond	Color		Cond	Color	
1	NATUR	AL						
c) Cabling		1 COAX Cabled						
d) Shield:		A/P/A Tape, 25% Overlap, Min.						
(1) Braid		AL,60% Coverage, Min.						
2) Shield:		A/P/A Tape, 25% Overlap, Min.						
a) Braid		AL,40% Coverage, Min.						
3) Jacket		0.0245" Wall, Nom.,PVC			0.298+,	0.298+/- 0.005		
a) Color(s) BLACK								
b) Print		ALPHA WIRE P/N 6458 RG-6/U TYPE 75C QUAD SHIELD 1C18 CONTROLNET(TM) CABLE EXXXXX (UL) CL2R OR CMR OR C(UL) CMG CE ROHS [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]						

### **Applicable Specifications**

75℃ 75℃			
75°C			
ТҮРЕ			
3 1786			
EU Low Voltage Directive 2006/95/EC			

### Environmental

1) CE: EU Dii	rective 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 <u>C</u> .
2) REACH Re	egulation (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 <u>Alpha's REACH SVHC Declaration</u> .

## **Properties**

Physical & Mechanical Properties				
-30 to 75°C				
10X Cable Diameter				
20.1 Lbs, Maximum				
Yes				
(For Engineering purposes only)				
300 V <sub>RMS</sub>				
75 Ω +/- 3				
0.097 µH/ft, Nominal				
16.2 pf/ft @1 kHz, Nominal				
82 %				
28 Ω/1000ft @20°C, Nominal				
3.6 Ω/1000ft @20°C, Nominal				
23 db, Minimum, 5-50 Mhz				
0.35 @ 1 MHz				
0.38 @ 2 MHz				
0.45 @ 5 MHz				
0.59 @ 10 MHz				
0.86 @ 20 MHz				
1.37 @ 50 MHz				
	10X Cable Diameter         20.1 Lbs, Maximum         Yes         (For Engineering purposes only) $300 V_{RMS}$ $75 \Omega +/- 3$ $0.097 \mu$ H/ft, Nominal         16.2 pf/ft @1 kHz, Nominal         82 %         28 $\Omega$ /1000ft @20°C, Nominal         3.6 $\Omega$ /1000ft @20°C, Nominal         2.3 db, Minimum, 5-50 Mhz $0.35 @ 1 MHz$ $0.45 @ 5 MHz$ $0.86 @ 20 MHz$			

### Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	16 x 11 x 8 Continuous length	
b) 500 FT	12 x 10 x 5 Continuous length	
c) 100 FT	12 x 4.5 x 3.5 Continuous length	
	[Spool dimensions may vary slightly]	

#### www.alphawire.com

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# **EU/UK/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 6458

6458, RoHS-Compliant Commencing With 7/1/2008 Production

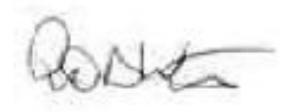
#### Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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). This product also complies with UK - RoHS. 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 2 per GB/T 26572-2011.

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 4/18/2024

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