

Customer Specification

PART NO. 6457

Construction

				Diameters (In)	
1) Component 1		4 X 1 PAIR			
a) Conductor		22 (7/30) AWG Tinned Copper		0.030	
b) Insulation		0.0225" Wall, Nom. Foam HDPE		0.075	
(1) Color(s)					
Pair	Color	Pair	Color	Pair	Color
1	WHITE/BLUE-BLUE/WHITE	3	WHITE/GREEN-GREEN/WHITE		
2	WHITE/ORANGE-ORANGE/WHITE	4	WHITE/BROWN-BROWN/WHITE		
c) Pair		2/Cond Cabled Together			
(1) Twists:		4.8 Twists/foot (min)			
2) Cable Assembly		4 Components Cabled			
a) Twists:		2.5 Twists/foot (min)			
b) Orientation:		Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing Out			
b) Drain Wire		22 (7/30) AWG Tinned Copper			
c) Braid		Tinned Copper,65% Coverage, Min.			
4) Jacket		0.053" Wall, Nom.,PVC		0.448 (0.470 Max.)	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N 6457 4PR 22 AWG EXXXXX SHIELDED (UL) CM OR PLTC SUN RES OR C(UL) CM --- FT1 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

Applicable Specifications

1) UL	PLTC	60°C
	CM	60°C
	SUN RES	
2) CSA International	CM	60°C
	FT1	
3) CE:	EU Low Voltage Directive 2014/35/EU	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item.
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.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 60°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	55 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V _{RMS}
2) Characteristic Impedance	120 Ω +/- 12
3) Mutual Capacitance	11 pF/ft @1 kHz, Nominal
4) Ground Capacitance	20.9 pF/ft @1 kHz, Nominal
5) Velocity of Propagation	78 %
6) Conductor DCR	15.3 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	2.2 Ω/1000ft @20°C, Nominal
8) Current	2.7 amps per conductor @30°C, Maximum
9) Attenuation, Max dB/100ft	0.5 @ 1 MHz

Other

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Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 500 FT	18 x 14.25 x 8 Continuous length
c) 100 FT	12 x 5.94 x 5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6457

6457, 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 "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

Substance

Lead
Mercury
Cadmium
Hexavalent Chromium
Polybrominated Biphenyls (PBB)
Polybrominated Diphenyl Ethers (PBDE) ,
Including Deca-BDE
Bis(2-ethylhexyl) phthalate (DEHP)
Butyl benzyl phthalate (BBP)
Dibutyl phthalate (DBP)
Diisobutyl phthalate (DIBP)

Maximum Control Value

0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/3/2024

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