

Request a Sample

Customer Specification PART NO. 6456

Construction

Constructi				<u></u>		
				Diameters (In)		
1) Component 1		3 X 1 PAIR	3 X 1 PAIR			
a) Conductor		22 (7/30) AWG Ti	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	2	WHITE/ORANGE- ORANGE/WHITE	3	WHITE/GREEN- GREEN/WHITE	
c) Pair		2/Cond Cabled To	2/Cond Cabled Together			
(1) Twists:		4.8 Twists/foot (m	4.8 Twists/foot (min)			
2) Cable Assembly		3 Components Ca	3 Components Cabled			
a) Twists:		3.2 Twists/foot (m	in)			
3) Shield:		Alum/Mylar Tape,	25% Overlap, Min.			
a) Foil Direction		Foil Facing Out	Foil Facing Out			
b) Drain Wire		22 (7/30) AWG Ti	22 (7/30) AWG Tinned Copper			
c) Braid		Tinned Copper,65	Tinned Copper,65% Coverage, Min.			
4) Jacket		0.053" Wall, Nom.,PVC		0.414		
a) Color(s)		BLACK	BLACK			
b) Print		EXXXXX SHIELD C(UL) CM FT1 * = Factory Code	ALPHA WIRE P/N 6456 3PR 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		
	СМ	60°C		
	SUN RES			
2) CSA International	СМ	60°C		
	FT1			
3) CE:	EU Low Voltage Directive 2006/95/EC			

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.	
3) California Proposition 65:	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.	

Properties

Physical & Mechanical Properties				
1) Temperature Range	-20 to 60°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	44 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 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) 5000 FT	48 x 26 x 18 Continuous length
b) 1000 FT	24 x 14 x 12 Continuous length
c) 500 FT	16 x 11 x 8 Continuous length
d) 100 FT	12 x 10 x 5 Continuous length
	[Spool dimensions may vary slightly]
Notes:	
a) EIA Industrial RS485 cable.	
b) 5000 ft. put-up available by special orde	r only, minimums may apply

www.alphawire.com

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6456

6456, 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)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA

Alpha Wire

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