

Customer Specification PART NO. 6453

Construction

				Diameters (In))	
1) Component 1		1 X 1 PAIR	1 X 1 PAIR			
a) Conductor		22 (7/30) AWG T	22 (7/30) AWG TC		0.030	
b) Insulation		0.0285" Wall, Nom. Foam HDPE		0.087	0.087	
(1) Color(s)						
Pair	Color	Pair	Color	Pair	Color	
1	WHITE/BLUE- BLUE/WHITE					
c) Cabling		2 COND Cabled	2 COND Cabled			
(1) Twists:		4.8 Twists/foot (m	4.8 Twists/foot (min)			
2) Shield:		Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction		Foil Facing Out				
b) Drain Wire		22 (7/30) AWG TC				
c) Braid		TC,65% Coverage, Min.				
3) Jacket		0.042" Wall, Nom.,PVC		0.284 (0.297)	0.284 (0.297 Max.)	
a) Color(s)		BLACK				
b) Print		EXXXXX SHIELD C(UL) CM FT1	ALPHA WIRE P/N 6453 1PR 22 AWG EXXXXX SHIELDED (UL) CM OR PLTC SUN RES OR C(UL) CM FT1 CE ROHS [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	СМ	60°C	
	FT1		
3) CE:	EU Low Voltage Directive 20	EU Low Voltage Directive 2006/95/EC	
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Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):	
2) REACH Regulation (EC 1907/2006):	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.
	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	-20 to 60°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	19.8 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V _{RMS}			
2) Characteristic Impedance	120 Ω +/- 10			
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	15.1 Ω/1000ft @20°C, Nominal			
7) OA Shield DCR	4.3 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

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]	
Notes:		
a) EIA Industrial RS485 cable.		

www.alphawire.com

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6453

6453, RoHS-Compliant Commencing With 7/1/2008 Production

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, 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 this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. 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 11364-2006.

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-BDF	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

4/26/2013