

Request a Sample

# Customer Specification PART NO. 6461

#### Construction

				Diameters (In)		
1) Component 1		2 X 1 COND	2 X 1 COND			
a) Conductor		22 (7/30) AWO	22 (7/30) AWG TC		0.029	
b) Insulation		0.046" Wall, N	0.046" Wall, Nom. Foam HDPE		0.121	
(1) Color(s)						
Cond	Color	Cond	Color	Cond	Color	
1	BLUE	2	ORANGE			
2) Cable Assembly		2 Components	2 Components Cabled			
a) Twists:		2.8 Twists/foo	2.8 Twists/foot (min)			
3) Shield:		Alum/Mylar Ta	Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing Ou	Foil Facing Out			
b) Drain Wire		20 (7/28) AWO	20 (7/28) AWG TC			
4) Jacket		0.050" Wall, N	0.050" Wall, Nom.,PVC			
a) Color(s)		ORANGE	ORANGE			
b) Ripcord		1310 Denier N	1310 Denier Nylon			
c) Print		FIELDBUS 1PI PLTC SUN RE	ALPHA WIRE P/N 6461 FIELDBUS 1PR22 SHIELDED (UL) CM 75C EXXXXX OR PLTC SUN RES OR C(UL) CM 75C CE ROHS [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

**Applicable Specifications** 

1) UL	PLTC	75°C	
	СМ	75°C	
	SUN RES		
2) CSA International	СМ	75°C	
3) Other	ISA/IEC SP50		
4) 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	-40 to 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	19.7 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V <sub>RMS</sub>
2) Characteristic Impedance	150 Ω +/- 15
3) Inductance	0.3 μH/ft, Nominal
4) Mutual Capacitance	9.2 pf/ft @1 kHz, Nominal
5) Ground Capacitance	16 pf/ft @1 kHz, Nominal
6) Velocity of Propagation	78 %
7) Conductor DCR	17.1 Ω/1000ft @20°C, Nominal
8) OA Shield DCR	3.3 Ω/1000ft @20°C, Nominal
9) Current	2.5 amps per conductor @30°C, Maximum
10) Attenuation, Max dB/100ft	1.98 @ 250 kHz
	3.05 @ 625 kHz
	3.96 @ 1.25 MHz
	6.1 @ 3.125 MHz

### Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	18 x 12 x 8 Continuous length	
b) 500 FT	16 x 11 x 8 Continuous length	
c) 100 FT	12 x 10 x 5 Continuous length	
	[Spool dimensions may vary slightly]	
Notes:		
a) FOUNDATION Fieldbus Cable		

www.alphawire.com

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

To Whom It May Concern: Alpha Wire Part Number: 6461

6461, 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.

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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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