

# **Customer Specification**

## **PART NO. 6460**

#### Construction

					Diamet	ers (In)		
1) Component 1		2 X 1 COND						
a) Conductor		22 (7/.0096) AWG TC			0.029	0.029		
b) Insulation		0.015" Wall, Nom. Polypropylene(PP)			0.059	0.059		
(1) Color(s)								
Cond	Color		Cond	Color		Cond	Color	
1	BLUE		2	ORANGE				
2) Cable Assembly		2 Component	2 Components Cabled					
a) Twists:		8.0 Twists/foot (min)						
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.						
a) Foil Direction		Foil Facing Out						
b) Drain Wire		22 (7/30) AWG TC						
4) Jacket		0.037" Wall, Nom.,PVC			0.197+/	0.197+/- 0.010		
a) Color(s)		ORANGE						
b) Ripcord		1310 Denier Nylon						
c) Print		ALPHA WIRE P/N 6460 FIELDBUS TYPE B 31.25 KB/S EXXXXX 2C22 SHIELDED (UL) 105C PLTC OR ITC SUN RES OR CM OR C(UL) CM CE ROHS (SEQ FOOTAGE EVERY 2 FT) [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]						

#### **Applicable Specifications**

1) UL	PLTC	105°C	
	ITC	105°C	
	СМ	105°C	
	SUN RES		
2) CSA International	СМ	105°C	
3) CE:	EU Low Voltage Directive 2	EU Low Voltage Directive 2006/95/EC	

### Environmental

1) CE: E	U Directive 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) REAC	CH 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. For up-to-date information, please see <u>Alpha's REACH SVHC Declaration</u> .

## Properties

Physical & Mechanical Properties			
1) Temperature Range	-30 to 105°C		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	15.6 Lbs, Maximum		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	300 V <sub>RMS</sub>		
2) Characteristic Impedance	100 Ω +/- 30		
3) Inductance	0.2 μH/ft, Nominal		
4) Mutual Capacitance	23.5 pf/ft @1 kHz, Nominal		
5) Ground Capacitance	44 pf/ft @1 kHz, Nominal		
6) Velocity of Propagation	66 %		
7) Conductor DCR	17.1 Ω/1000ft @20°C, Nominal		
8) OA Shield DCR	11.4 Ω/1000ft @20°C, Nominal		
9) Current	2.5 amps per conductor @30°C, Maximum		
10) Attenuation, Max dB/100ft	1.52 @ 39 kHz		

#### Other

Packaging	Flange x Traverse x Barrel (inches)		
a) 1000 FT	12 x 10 x 5 Continuous length		
b) 500 FT	12 x 4.5 x 3.5 Continuous length		
c) 100 FT	6.5 x 4 x 2.5 Continuous length		
	[Spool dimensions may vary slightly]		
Notes:			
a) FIELDBUS TYPE B CABLE			

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Tel: 1-800-52 ALPHA

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

To Whom It May Concern:

Alpha Wire Part Number: 6460

6460, 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 5/6/2024

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