

# Customer Specification

## PART NO. 6462

### Construction

				Diameters (In)	
1) Component 1		2 X 1 COND			
a) Conductor		22 (SOLID) AWG BC		0.025	
b) Insulation		0.037" Wall, Nom. Foam HDPE		0.099	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	RED	2	GREEN		
2) Cable Assembly		2 Components Cabled			
a) Twists:		4.4 Twists/foot (min)			
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing Out			
b) Braid		TC,65% Coverage, Min.			
4) Jacket		0.043" Wall, Nom.,PVC		0.315 (0.328 Max.)	
a) Color(s)		VIOLET			
b) Print		ALPHA WIRE-* P/N 6462 PROFIBUS CABLE 1PR22 (UL) CMG EXXXXX OR PLTC OR C(UL) CMG SUN RES OR AWM 20201 600V (SEQ FOOTAGE EVERY 2FT) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

### Applicable Specifications

1) UL	CMG	75°C
	AWM/STYLE 20201	60°C / 600 V <sub>RMS</sub>
	SUN RES	
	PLTC	75°C
2) CSA International	CMG	75°C

### Environmental

1) EU Directive 2002/95/EC(RoHS):	
	All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.

### Properties

Physical & Mechanical Properties	
1) Temperature Range	-30 to 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	14 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Characteristic Impedance	150 Ω +/- 15
3) Mutual Capacitance	8.5 pf/ft @1 kHz, Nominal
4) Ground Capacitance	27.9 pf/ft @1 kHz, Nominal
5) Velocity of Propagation	78 %
6) Conductor DCR	16 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	3.9 Ω/1000ft @20°C, Nominal
8) Current	2.3 amps per conductor @30°C, Maximum
9) Attenuation, Max dB/100ft	0.27 @ 200 kHz
	0.67 @ 4 MHz
	1.37 @ 16 MHz

## Other

1) Packaging	
a) 1000 FT	
b) 500 FT	
c) 100 FT	
2) Notes:	
a) PROFIBUS DP Cable	

[www.alphawire.com](http://www.alphawire.com)

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## RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:6462

6462 , RoHS-Compliant Commencing With7/1/2008Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, 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 these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

<b>Substance</b>	<b>Maximum Control Value</b>
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)

*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 Company:

Dave Watson, Director of Engineering &QA

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