2200 US Highway 27 South
Richmond, IN 47374
Tel: 1-800-52 ALPHA
Web: www.alphawire.com

Customer Specification

PART NO. 6462

Construction

						Diameter ("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/ft. (min.)	
3) Shield						Alum/Mylar Tape, 25% Overlap (min.)	
a) Foil Direction						Foil Facing Out	
b) Braid						TC, 65% Coverage (min.)	
4) Jacket						0.042" 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 CE ROHS (SEQ FOOTAGE EVERY 2FT) *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_{RMS}
	SUN RES	
	PLTC	75°C
2) CSA International	CMG	75°C
3) CE	EU Low Voltage Directive 2006/95/EC	

Environmental

1) CE: EU 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. Refer to the RoHS Certificate of Compliance for more detail.
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. For up-to-date information, please see Alpha's REACH SVHC Declaration.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-30 to 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	14 lbs. max.
Electrical Properties	*Engineering purposes only*
1) Voltage Rating	300 V_{RMS}
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 (max.)
9) Attenuation (max. dB/100ft.)	0.27 @200 kHz
	0.67 @4 MHz
	1.37 @16 MHz

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	18 x 12 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.
Note:	
a) PROFIBUS DP Cable	

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Alpha Wire
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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 6462

6462, RoHS-Compliant Commencing With 01/07/2008 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 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. T the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitio **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control c

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 d 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 c Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and reg

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA 31/03/2025

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