

Customer Specification

PART NO. 76012

Construction

						Diameters (In)	
1) Component 1						4 X 1 PAIR	
a) Conductor						24 (SOLID) AWG BC	0.023
b) Insulation						0.014" Wall, Nom. Polypropylene (PP)	0.050
(1) Color(s)							
Pair	Color	Pair	Color	Pair	Color		
1	BLU - WHT/BLU	2	ORG - WHT/ORG	3	GRN- WHT/GRN		
4	BRN - WHT/BRN						
c) Pair						2/Cond Cabled Together	
(1) Lay Length:						Various Lay	
2) Cable Assembly						4 Components Bunch Cabled	
a) Twists:						3.0 Twists/foot	
b) Core Wrap						Clear Mylar Tape, 25% Overlap, Min.	
3) Shield:						A/P/A Tape, 25% Overlap, Min.	
a) Drain Wire						24 (SOLID) AWG TC	
b) Braid						TC,70% Coverage, Min.	
4) Jacket						0.035" Wall, Nom.,TPE	0.325 Avg. (0.335 Max.)
a) Color(s)						BLACK, RED	
b) Ripcord						Nylon	
c) Print						ALPHA WIRE-* P/N 76012 4PR 24 AWG XTRAGUARD(R) INDUSTRIAL ETHERNET (UL) C(UL) TYPE CMR 75C FT4 ANSI/TIA-568-C.2 CAT5E CE ROHS (SEQUENTIAL FOOTAGE MARKING) * = Factory Code	

Applicable Specifications

1) UL	CMR	75°C
	FT4	
2) CSA International	C(UL) TYPE CMR	75°C
	FT4	
3) CE:	EU Low Voltage Directive 2014/35/EU	

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. Consult Alpha Wire's web site for RoHS C of C .
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	-50 to 75°C
2) Bend Radius	8X Cable Diameter
3) Pull Tension	33.0 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V _{RMS}
2) Characteristic Impedance	100 ω +/- 15
3) Mutual Capacitance	5.6 nf/100m Max
4) Velocity of Propagation	70 % Nom.
5) Conductor DCR	9.38 ω/100m @20°C, Max
6) Skew	45 ns/100m, Max
7) Pair to Ground Unbalance	330 pf/100m, Max
8) DC Unbalance of a Pair	5%, Max
9) Insertion Loss, Max dB/100m	2.4 @ 1 MHz
	4.9 @ 4 MHz
	6.9 @ 8 MHz
	7.8 @ 10 MHz
	9.9 @ 16 MHz
	11.1 @ 20 MHz
	12.5 @ 25 MHz
	14.1 @ 31.25 MHz
	20.4 @ 62.5 MHz
	26.4 @ 100 MHz

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	16 x 11 x 8 Continuous length
b) 500 FT	14 x 8.75 x 8 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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SpecPDFFooterConfidential



EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 76012

76012, RoHS-Compliant Commencing With 21/03/2012 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 Union (RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. 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 **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control"

Substance

Lead
Mercury
Cadmium
Hexavalent Chromium
Polybrominated Biphenyls (PBB)
Polybrominated Diphenyl Ethers (PBDE) ,
Including Deca-BDE
Bis(2-ethylhexyl) phthalate (DEHP)
Butyl benzyl phthalate (BBP)
Dibutyl phthalate (DBP)
Diisobutyl phthalate (DIBP)

Maximum Control Value

0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)

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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 issuance. This document is intended to provide guidance 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 provide regulatory information for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulatory requirements. Authorized Signatory for the Alpha Wire:

A handwritten signature in blue ink, appearing to read 'QBW', with a long horizontal line extending to the right.

Dave Watson, Director of Engineering & QA 08/08/2025

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