Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification

PART NO. 75012

Construction

		Diameters (In)
1) Component 1	2 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		

c) Pair	2/Cond Cabled Together	
(1) Lay Length:	Various Lay	
2) Cable Assembly	2 Components Bunch Cabled	
a) Twists:	4.0 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. (0.345 Max.)
a) Color(s)	BLACK	
b) Ripcord	Nylon	
c) Print	ALPHA WIRE-* P/N 75012 2PR 24 AWG XTRAGUARD(R) INDUSTRIAL ETHERNET (UL) C(UL) TYPE CMR 75C FT4 ANSI/TIA-568-C.2 CAT5E VERIFIED ROHS CE (SEQUENTIAL FOOTAGE MARKING) * = Factory Code	

Applicable Specifications

1) UL	CMR	105°C
	FT4	
2) CSA International	C(UL) TYPE CMR	105°C
	FT4	
3) CE:	LVD 73/23/EEC Amendment 93/68/EEC	

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	-50 to 105°C
2) Bend Radius	8X Cable Diameter
3) Pull Tension	20.2 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V_{RMS}
2) Characteristic Impedance	100 +/- 15
3) Mutual Capacitance	5.6 nf/100m Max
4) Velocity of Propagation	70 % Nom.
5) Conductor DCR	9.38 /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	12 x 12 x 3.5 Continuous length
b) 500 FT	12 x 6 x 3.5 Continuous length
	[Spool dimensions may vary slightly]

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:75012

75012 , RoHS-Compliant Commencing With3/21/2012Production

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.***

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) Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)
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 8/20/2012