

Customer Specification

PART NO. M8524010

Construction

		Diameters (In)			
1) Component 1		1 X 1 PAIR			
a) Conductor		14 (7/.0242) AWG BC			
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.115	
(1) Color Code		Alpha Wire Company Color Code Q			
Pair	Color	Pair	Color	Pair	Color
1	BLACK-WHITE				
c) Pair		2/Cond Cabled Together			
(1) Twists:		3.7 Twists/foot (min)			
(2) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.			
2) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In			
b) Drain Wire		16 (7/.0192) AWG TC			
3) Jacket		0.048" Wall, Nom.,PVC		0.333 (0.348 Max.)	
a) Color(s)		BLACK			
b) Ripcord		1 End 810 Denier Nylon			
c) Print		ALPHA WIRE-* P/N M8524010 1PR 14 AWG EXXXXXX (UL) TYPE TC 600V 90C DRY 75C WET SUN. RES. DIR. BUR. ROHS * = Factory Code			

Applicable Specifications

1) UL	TC	90°C / 600 V _{RMS}
	SUN RES	
	DIRECT BURIAL	

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	-20 to 90°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	85 Lbs, Maximum
4) Sunlight Resistance	Yes
5) Direct Burial	Yes
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}
2) Mutual Capacitance	56 pf/ft @1 kHz, Nominal
3) Ground Capacitance	101 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	39
5) Inductance	0.17 µH/ft, Nominal
6) Conductor DCR	2.6 /1000ft @20°C, Nominal
7) OA Shield DCR	4 /1000ft @20°C, Nominal

Other

1) Packaging	
a) 1000 FT	
b) 500 FT	
c) 100 FT	
d) Bulk(Made-to-order)	

www.alphawire.com

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

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:M8524010

M8524010 , RoHS-Compliant Commencing With1/1/2006Production

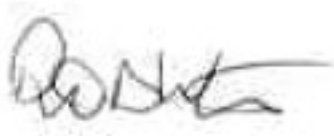
This document certifies that the Alpha part numbers cited above are manufactured in accordancewith Directive 2002/95/EC of the European

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)	0.1% by weight (1000 ppm)
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

11/2/2012