

# Customer Specification PART NO. M8744080

## Construction

					Diameters (In)	
1) Component 1		8 X 1 PAIR	8 X 1 PAIR			
a) Conductor		14 (7/.0242) AW	14 (7/.0242) AWG BC		0.073	
b) Insulation		0.016" Wall, Nom	0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.115	
(1) Print			ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)			
(2) Color Code		Alpha Wire Color	Alpha Wire Color Code BW			
Pair	Color	Pair	Color	Pair	Color	
1	BLACK- WHITE#1	4	BLACK- WHITE#4	7	BLACK- WHITE#7	
2	BLACK- WHITE#2	5	BLACK- WHITE#5	8	BLACK- WHITE#8	
3	BLACK- WHITE#3	6	BLACK- WHITE#6			
c) Pair		2/Cond Cabled T	2/Cond Cabled Together			
(1) Twists:		3.7 Twists/foot (n	3.7 Twists/foot (min)			
Individually Applie	ed:					
d) Shield:		Foil Free Alum/M Overlap, Min.	Foil Free Alum/Mylar Tape, 25% Overlap, Min.			
(1) Foil Direction		Foil Facing In	Foil Facing In			
(2) Drain Wire		16 (7/.0192) AW	16 (7/.0192) AWG TC			
2) Cable Assembly		8 Components C	8 Components Cabled			
a) Twists:		1.2 Twists/foot (n	1.2 Twists/foot (min)			
b) Core Wrap		Clear Mylar Tape	Clear Mylar Tape, 25% Overlap, Min.			
3) Shield:		Alum/Mylar Tape	Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In	Foil Facing In			
b) Drain Wire		16 (7/.0192) AW	16 (7/.0192) AWG TC			

4) Jacket	0.085" Wall, Nom.,PVC	0.863 (0.899 Max.)
a) Color(s)	BLACK	
b) Ripcord	1 End 810 Denier Nylon	
c) Print	ALPHA WIRE-* P/N M8744080 8PR 14 AWG EXXXXXX (UL) TYPE TC-ER 600V 90C DRY 75C WET	
	SUN. RES. DIR. BUR. CE ROHS  * = Factory Code	

# **Applicable Specifications**

1) UL	тс	90°C / 600 V <sub>RMS</sub>
	SUN RES	
	DIRECT BURIAL	
	EXPOSED RUN	
2) 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. 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.	
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.	

# **Properties**

Physical & Mechanical Properties		
-25 to 90°C		
10X Cable Diameter		
698 Lbs, Maximum		

4) Sunlight Resistance	Yes
5) Direct Burial	Yes
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	600 V <sub>RMS</sub>
2) Mutual Capacitance	56 pf/ft @1 kHz, Nominal
3) Ground Capacitance	101 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	39 Ω
5) Inductance	0.17 μH/ft, Nominal
6) Conductor DCR	2.6 Ω/1000ft @20°C, Nominal
7) Component Shield DCR	4 Ω/1000ft @20°C, Nominal
8) OA Shield DCR	3.3 Ω/1000ft @20°C, Nominal

#### Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	48 x 26 x 18 Continuous length
b) 500 FT	30 x 14 x 12 Continuous length
c) 100 FT	24 x 14 x 12 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

#### www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207

Tel: 1-800-52 ALPHA (25742)

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#### **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: M8744080

M8744080, RoHS-Compliant Commencing With 1/1/2006 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 Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded 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 extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014.

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 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:

Dave Watson, Director of Engineering & QA

8/25/2020

Alpha Wire

711 Lidgerwood Ave. Elizabeth, NJ 07207

Tel: 1-908-925-8000

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**Authorized Distributor** 

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