

# Customer Specification

## PART NO. M8746240

### Construction

				Diameters (In)	
1) Component 1		24 X 1 PAIR			
a) Conductor		16 (7/.0192) AWG BC		0.058	
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.100	
(1) Print		ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)			
(2) Color Code		Alpha Wire Color Code BW			
Pair	Color	Pair	Color	Pair	Color
1	BLACK- WHITE#1	9	BLACK- WHITE#9	17	BLACK- WHITE#17
2	BLACK- WHITE#2	10	BLACK- WHITE#10	18	BLACK- WHITE#18
3	BLACK- WHITE#3	11	BLACK- WHITE#11	19	BLACK- WHITE#19
4	BLACK- WHITE#4	12	BLACK- WHITE#12	20	BLACK- WHITE#20
5	BLACK- WHITE#5	13	BLACK- WHITE#13	21	BLACK- WHITE#21
6	BLACK- WHITE#6	14	BLACK- WHITE#14	22	BLACK- WHITE#22
7	BLACK- WHITE#7	15	BLACK- WHITE#15	23	BLACK- WHITE#23
8	BLACK- WHITE#8	16	BLACK- WHITE#16	24	BLACK- WHITE#24
c) Pair		2/Cond Cabled Together			
(1) Twists:		4.0 Twists/foot (min)			
Individually Applied:					
d) Shield:		Foil Free Alum/Mylar Tape, 25%			

	Overlap, Min.	
(1) Foil Direction	Foil Facing In	
(2) Drain Wire	18 (7/.0152) AWG TC	
2) Cable Assembly	24 Components Cabled	
a) Twists:	0.8 Twists/foot (min)	
b) Core Wrap	Clear Mylar Tape, 25% Overlap, Min.	
3) Shield:	Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction	Foil Facing In	
b) Drain Wire	18 (7/.0152) AWG TC	
4) Jacket	0.085" Wall, Nom.,PVC	1.235 (1.292 Max.)
a) Color(s)	BLACK	
b) Ripcord	1 End 810 Denier Nylon	
c) Print	ALPHA WIRE-* P/N M8746240 24PR 16 AWG EXXXXXX (UL) TYPE TC-ER 600V 90C DRY 75C WET SUN. RES. DIR. BUR. CE ROHS * = Factory Code	

## Applicable Specifications

1) UL	TC	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.
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## Properties

Physical & Mechanical Properties	
1) Temperature Range	-25 to 90°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	1291 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	49 pf/ft @1 kHz, Nominal
3) Ground Capacitance	88 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	44 Ω
5) Inductance	0.18 μH/ft, Nominal
6) Conductor DCR	4.2 Ω/1000ft @20°C, Nominal
7) Component Shield DCR	6.1 Ω/1000ft @20°C, Nominal
8) OA Shield DCR	4 Ω/1000ft @20°C, Nominal

## Other

<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) 1250 FT	48 x 26 x 18 Continuous length
b) 1000 FT	48 x 26 x 18 Continuous length
c) 500 FT	48 x 26 x 18 Continuous length
d) 100 FT	48 x 26 x 18 Continuous length
e) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>
<b>Notes:</b>	
a) 1250 Ft Put-ups available by special order only	

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: M8746240

M8746240, 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)

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Authorized Signatory for the Alpha Wire:

A handwritten signature in black ink, appearing to read 'Dave Watson'.

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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