

Customer Specification

PART NO. M8706240

Construction

						Diameters (In)	
1) Component 1						24 X 1 PAIR	
a) Conductor						16 (7/.0192) AWG Bare Copper	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.)	
	olor Code						-
<u> </u>						Alpha Wire Color Code BW	_
Pair	-	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)	
2) Cable Assembly						24 Components Cabled	
a) Twists:						0.8 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap						Clear Mylar Tape, 25% Overlap, Min.	
3) Sh	nield:					Alum/Mylar Tape, 25% Overlap, Min.	
a) Fo	il Direction					Foil Facing In	
b) Drain Wire						18 (7/.0152) AWG Tinned Copper	
4) Jacket						0.085" Wall, Nom.,PVC	1.141 (1.197 Max.)
a) Color(s)					BLACK		
b) Ripcord						1 End 810 Denier Nylon	
c) Print						ALPHA WIRE-* P/N M8706240 24PR 16 AWG EXXXXXX (UL) TYPE TC-ER 600V 90C DRY 75C WET SUN. RES. DIR. BUR. CE ROHS * = Factory Code	
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Applicable Specifications

1) UL	TC	90°C / 600 V _{RMS}
	SUN RES	
	DIRECT BURIAL	
	EXPOSED RUN	
2) CE:	EU Low Voltage Directive 2014/35/EU	

Environmental

This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item.
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.

Properties

Physical & Mechanical Properties				
1) Temperature Range	-25 to 90°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	986 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	32 pF/ft @1 kHz, Nominal			
3) Ground Capacitance	58 pF/ft @1 kHz, Nominal			
4) Characteristic Impedance	68 Ω			
5) Inductance	0.18 μH/ft, Nominal			
6) Conductor DCR	4.2 Ω/1000ft @20°C, Nominal			
7) OA Shield DCR	4.2 Ω/1000ft @20°C, Nominal			

Other

Flange x Traverse x Barrel (inches)	
48 x 26 x 18 Continuous length	
48 x 26 x 18 Continuous length	
36 x 14 x 12 Continuous length	
24 x 14 x 12 Continuous length	
[Spool dimensions may vary slightly]	
-	48 x 26 x 18 Continuous length 48 x 26 x 18 Continuous length 36 x 14 x 12 Continuous length 24 x 14 x 12 Continuous length

www.alphawire.com

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M8706240

M8706240, RoHS-Compliant Commencing With 1/1/2006 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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). This product also complies with UK - RoHS. 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 2 per GB/T 26572-2011.

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:

Dave Watson, Director of Engineering 3/30/2025

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