

Customer Specification

PART NO. M8744160

Construction

						Diameters (In)		
1) Component 1						16 X 1 PAIR		
a) Conductor						14 (7/.0242) AWG Bare Copper		0.073
b) Insulation						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 Code BW		
Pair	Color	Pair	Color	Pair	Color			
1	BLACK-WHITE#1	7	BLACK-WHITE#7	13	BLACK-WHITE#13			
2	BLACK-WHITE#2	8	BLACK-WHITE#8	14	BLACK-WHITE#14			
3	BLACK-WHITE#3	9	BLACK-WHITE#9	15	BLACK-WHITE#15			
4	BLACK-WHITE#4	10	BLACK-WHITE#10	16	BLACK-WHITE#16			
5	BLACK-WHITE#5	11	BLACK-WHITE#11					
6	BLACK-WHITE#6	12	BLACK-WHITE#12					
c) Pair						2/Cond Cabled Together		
(1) Twists:						3.7 Twists/foot (min)		
Individually Applied:								
d) Shield:						Foil Free Alum/Mylar Tape, 25% Overlap, Min.		
(1) Foil Direction						Foil Facing In		
(2) Drain Wire						16 (7/.0192) AWG Tinned Copper		
2) Cable Assembly						16 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) Shield:						Alum/Mylar Tape, 25% Overlap, Min.		
a) Foil Direction						Foil Facing In		
b) Drain Wire						16 (7/.0192) AWG Tinned Copper		
4) Jacket						0.085" Wall, Nom.,PVC		1.149 (1.197 Max.)
a) Color(s)						BLACK		
b) Ripcord						1 End 810 Denier Nylon		
c) Print						ALPHA WIRE-* P/N M8744160 16PR 14 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 _{RMS}
	SUN RES	
	DIRECT BURIAL	
	EXPOSED RUN	
2) CE:	EU Low Voltage Directive 2014/35/EU	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):	
	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.
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.
3) California Proposition 65:	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-25 to 90°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	1376 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	57 pF/ft @1 kHz, Nominal
3) Ground Capacitance	103 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	3.1 Ω/1000ft @20°C, Nominal

Other

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Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	48 x 26 x 18 Continuous length
b) 500 FT	36 x 14 x 12 Continuous length
c) 100 FT	24 x 14 x 12 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M8744160

M8744160, 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 "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

Substance

Lead
Mercury
Cadmium
Hexavalent Chromium
Polybrominated Biphenyls (PBB)
Polybrominated Diphenyl Ethers (PBDE) ,
Including Deca-BDE
Bis(2-ethylhexyl) phthalate (DEHP)
Butyl benzyl phthalate (BBP)
Dibutyl phthalate (DBP)
Diisobutyl phthalate (DIBP)

Maximum Control Value

0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 8/16/2024

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