

Customer Specification

PART NO. M8704080

Construction

						Diameters (In)
1) Component 1 8 X 1 PAIR		8 X 1 PAIR				
·		14 (7/.0242)	AWG Bare	Copper		0.073
b) Insulation 0.016"		0.016" Wall,	Nom. PVC	/ 0.005" Wall NYLON		0.115
1(1) Print		ALPHA NUM (ONE-1) ALT				
(2) Color Co	de	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 Cab	led Togeth	er		
(1) Twists:		3.7 Twists/foot (min)				
2) Cable Assembly		8 Components Cabled				
a) Twists: 1.3 To		1.3 Twists/fo	1.3 Twists/foot (min)			
b) Orientation: Compo		Component	components to be arranged from INSIDE LAYER to OUTSIDE LAYER			₹
c) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.				
3) Shield: Al		Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction Foil F		Foil Facing I	Foil Facing In			
b) Drain Wire		16 (7/.0192) AWG Tinned Copper				
4) Jacket 0.		0.065" Wall, Nom.,PVC				0.764 (0.799 Max.)
a) Color(s) BLACK		BLACK	СК			
b) Ripcord 1 End 810		Denier Nylon				
c) Print		ALPHA WIRE-* P/N M8704080 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 _{RMS}	
	SUN RES		
	DIRECT BURIAL		
	EXPOSED RUN		
2) CE:	EU Low Voltage Directive 2014/3	EU Low Voltage Directive 2014/35/EU	

Environmental

1) CE: ELL Directive 2011	/65 /ELI/DaUS2) ELI Diractiva 2015 /962 /ELI /DaUS2):
1) CE. EO DIFECTIVE 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 (E	C 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.

Properties

Physical & Mechanical Properties			
1) Temperature Range	-25 to 90°C		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	536 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	35 pF/ft @1 kHz, Nominal		
3) Ground Capacitance	63 pF/ft @1 kHz, Nominal		
4) Characteristic Impedance	63 Ω		
5) Inductance	0.17 μH/ft, Nominal		
6) Conductor DCR	2.6 Ω/1000ft @20°C, Nominal		
7) OA Shield DCR	3.3 Ω/1000ft @20°C, Nominal		

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	36 x 14 x 12 Continuous length	
b) 500 FT	30 x 14 x 12 Continuous length	
c) 100 FT	18 x 9 x 8 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	
	[Lapace authorized may all young my]	

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M8704080

M8704080, 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	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 4/28/2024

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