



Customer Specification

PART NO. M8708160

Construction				

Code CK- TE#1 CK- TE#2 CK- TE#3 CK- TE#4 CK-	Pair 7 8 9 10	Color BLACK- WHITE#7 BLACK- WHITE#8 BLACK- WHITE#9	Pair 13 14	Color BLACK- WHITE#13 BLACK-	16 X 1 PAIR 18 (7/.0152) AWG Bare Copper 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.) Alpha Wire Color Code BW	0.046
Code Or CK- TE#1 CK- TE#2 CK- TE#3 CK- TE#4	7 8 9	BLACK- WHITE#7 BLACK- WHITE#8 BLACK-	13	BLACK- WHITE#13 BLACK-	0.016" Wall, Nom. PVC/ 0.005" Wall NYLON ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)	
Code Or CK- TE#1 CK- TE#2 CK- TE#3 CK- TE#4	7 8 9	BLACK- WHITE#7 BLACK- WHITE#8 BLACK-	13	BLACK- WHITE#13 BLACK-	ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)	0.088
or CK- TE#1 CK- TE#2 CK- TE#3 CK- TE#4	7 8 9	BLACK- WHITE#7 BLACK- WHITE#8 BLACK-	13	BLACK- WHITE#13 BLACK-	(ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)	
or CK- TE#1 CK- TE#2 CK- TE#3 CK- TE#4	7 8 9	BLACK- WHITE#7 BLACK- WHITE#8 BLACK-	13	BLACK- WHITE#13 BLACK-	Alpha Wire Color Code BW	
CK- TE#1 CK- TE#2 CK- TE#3 CK- TE#4	7 8 9	BLACK- WHITE#7 BLACK- WHITE#8 BLACK-	13	BLACK- WHITE#13 BLACK-		
TE#1 CK- TE#2 CK- TE#3 CK- TE#4	9	WHITE#7 BLACK- WHITE#8 BLACK-		WHITE#13 BLACK-		
TE#2 CK- TE#3 CK- TE#4	9	WHITE#8 BLACK-	14			
TE#3 CK- TE#4				WHITE#14		
TE#4	10		15	BLACK- WHITE#15		
CK-		BLACK- WHITE#10	16	BLACK- WHITE#16		
TE#5	11	BLACK- WHITE#11				
CK- TE#6	12	BLACK- WHITE#12				
(1) Twists: 4 2) Cable Assembly 1			•	•	2/Cond Cabled Together	
					4.8 Twists/foot (min)	
					16 Components Cabled	
					1.2 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: a) Foil Direction					Alum/Mylar Tape, 25% Overlap, Min.	
					Foil Facing In	
b) Drain Wire					20 (7/28) AWG Tinned Copper	
4) Jacket a) Color(s)					0.085" Wall, Nom.,PVC	0.856 (0.901 Max.)
					BLACK	
b) Ripcord					1 End 810 Denier Nylon	
	c) Print				ALPHA WIRE-* P/N M8708160 16PR 18 AWG EXXXXXX (UL) TYPE TC-ER 600V 90C DRY 75C WET SUN. RES. DIR. BUR. CE ROHS * = Factory Code	
b) Drain Wire 4) Jacket a) Color(s) b) Ripcord			9	9	9	0.085" Wall, Nom.,PVC BLACK 1 End 810 Denier Nylon ALPHA WIRE-* P/N M8708160 16PR 18 AWG EXXXXXXX (UL) TYPE TC-ER 600V 90C DRY 75C WET

Applicable Specifications

1) UL	тс	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.

Properties

Physical & Mechanical Properties		
1) Temperature Range	-25 to 90°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	415 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	30 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	54 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	73 Ω	
5) Inductance	0.19 μH/ft, Nominal	
6) Conductor DCR	6.7 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	5.9 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]	

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Tel: 1-800-52 ALPHA

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M8708160

M8708160, 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 4/1/2025

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