

Request a Sample

Customer Specification PART NO. M8708120

Construction

				Diameters (In))	
1) Component 1		12 X 1 PAIR				
a) Conductor		18 (7/.0152) AWG BC		0.046	0.046	
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.088	0.088	
(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	5	BLACK-WHITE#5	9	BLACK-WHITE#9	
2	BLACK-WHITE#2	6	BLACK-WHITE#6	10	BLACK-WHITE#10	
3	BLACK-WHITE#3	7	BLACK-WHITE#7	11	BLACK-WHITE#11	
4	BLACK-WHITE#4	8	BLACK-WHITE#8	12	BLACK-WHITE#12	
c) Pair		2/Cond Cabled Together				
(1) Twists:		4.8 Twists/foot (min)				
2) Cable Assembly		12 Components Cabled				
a) Twists:		1.3 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		20 (7/28) AWG TC				
4) Jacket		0.065" Wall, Nom.,PVC		0.737 (0.778 Max.)		
a) Color(s)		BLACK				
b) Ripcord		1 End 810 Denier Nylon				
c) Print		ALPHA WIRE-* P/N M8708120 12PR 18 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 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 Directive 20		
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.	

Properties

1 Toportios				
Physical & Mechanical Properties				
1) Temperature Range	-25 to 90°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	314 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	74 Ω			
5) Inductance	0.19 μH/ft, Nominal			
6) Conductor DCR	6.7 Ω/1000ft @20°C, Nominal			
7) OA Shield DCR	6.4 Ω/1000ft @20°C, Nominal			

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 3000 FT	48 x 26 x 18 Continuous length
b) 1000 FT	36 x 14 x 12 Continuous length
c) 500 FT	30 x 14 x 12 Continuous length
d) 100 FT	16 x 11 x 8 Continuous length
e) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]
Notes:	
a) 3000 ft. put-up available by special order.	

www.alphawire.com

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M8708120

M8708120, 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:

Dave Watson, Director of Engineering & QA

Alpha Wire

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