



Customer Specification

PART NO. M8708120

Construction

		Diameters (In)			
1) Component 1		12 X 1 PAIR			
a) Conductor		18 (7/.0152) AWG BC			
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.088	
(1) Print		ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)			
(2) Color Code		Alpha Wire Company 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/.0121) 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 600V 90C DRY 75C WET SUN. RES. DIR. BUR. ROHS * = Factory Code			

Applicable Specifications

1) UL	TC	90°C / 600 V _{RMS}
	SUN RES	
	DIRECT BURIAL	

Environmental

1) EU Directive 2002/95/EC(RoHS):	
	All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 90°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	313 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	6.7 Ω/1000ft @20°C, Nominal

Other

1) Packaging	
a) 1000 FT	
b) 500 FT	
c) 100 FT	
d) Bulk(Made-to-order)	

www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:M8708120

M8708120 , RoHS-Compliant Commencing With1/1/2006Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

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)

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Authorized Signatory for the Alpha Wire Company:



Dave Watson, Director of Engineering & QA

11/2/2012

Mouser Electronics

Authorized Distributor

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