

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Request a Sample

# Customer Specification PART NO. 77121

#### Construction

				Diameters (In)		
1) Component 1		12 X 1 COND	12 X 1 COND			
a) Conductor		18 (16/30) AWG	18 (16/30) AWG Tinned Copper		0.045	
b) Insulation		0.012" Wall, Nor	0.012" Wall, Nom. MPPE		0.069	
(1) Color Code		Alpha Wire Colo	Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	5	YELLOW	9	SLATE	
2	BROWN	6	GREEN	10	WHITE	
3	RED	7	BLUE	11	WHITE/BLACK	
4	ORANGE	8	VIOLET	12	WHITE/BROWN	
2) Cable Assembly		12 Components	12 Components Cabled			
a) Twists:		3.7 Twists/foot (I	3.7 Twists/foot (min)			
b) Core Wrap		Nonwoven Polye	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		Alum/Mylar Tape	Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In	Foil Facing In			
b) Drain Wire		20 (7/28) AWG 1	20 (7/28) AWG Tinned Copper			
4) Jacket		0.032" Wall, Nor	0.032" Wall, Nom.,MPPE		/lax.)	
a) Color(s)		SLATE	SLATE			
b) Ripcord		1 End 810 Denie	1 End 810 Denier Nylon			
c) Print		ECOCABLE(R) F C(RU) AWM I/II A CE ROHS (SEQ	ALPHA WIRE-* P/N 77121 12C 18 AWG ECOCABLE(R) RU AWM 21915 105C 600V C(RU) AWM I/II A/B FT2 600V 105C CE ROHS (SEQ FOOTAGE) * = Factory Code			

### **Applicable Specifications**

1) UL				
a) Component 1	AWM/STYLE 11231	105°C / 600 V <sub>RMS</sub>		
b) Overall	AWM/STYLE 21915	105°C / 600 V <sub>RMS</sub>		
	Horizontal Flame			
2) CSA International	C(RU) AWM I/II A/B FT2	105°C / 600 V <sub>RMS</sub>		
3) Other	Halogen-Free			
4) 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 Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.			
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.			
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.			

# Properties

Physical & Mechanical Properties			
1) Temperature Range	-50 to 105°C		
2) Bend Radius	6X Cable Diameter		
3) Pull Tension	160 Lbs, Maximum		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	600 V <sub>RMS</sub>		
2) Capacitance	28 pf/ft @1 kHz, Nominal Conductor to Conductor		
3) Ground Capacitance	50 pf/ft @1 kHz, Nominal		
4) Inductance	0.17 μH/ft, Nominal		
5) Conductor DCR	7.3 Ω/1000ft @20°C, Nominal		
6) OA Shield DCR	7.5 Ω/1000ft @20°C, Nominal		

# Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	18 x 12 x 8 Continuous length
b) 100 FT	12 x 10 x 5 Continuous length
	[Spool dimensions may vary slightly]

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# **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 77121

77121, RoHS-Compliant Commencing With 10/12/2012 Production

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, 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 this Directive for the specific definitions and extents of this Directive. **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 11364-2006.

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)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire Company:

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