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Customer Specification

PART NO. 77013

Construction

		Diameters (In)			
1) Component 1		3 X 1 COND			
a) Conductor		20 (7/28) AWG Tinned Copper		0.038	
b) Insulation		0.010" Wall, Nom. MPPE		0.058	
(1) Color Code		Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	BROWN	3	RED
2) Cable Assembly		3 Components Cabled			
a) Twists:		8.0 Twists/foot (min)			
b) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Jacket		0.032" Wall, Nom.,MPPE		0.193 (0.203 Max.)	
a) Color(s)		SLATE			
b) Ripcord		1 End 810 Denier Nylon			
c) Print		ALPHA WIRE-* P/N 77013 3C 20 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 _{RMS}
b) Overall		AWM/STYLE 21915	105°C / 600 V _{RMS}
		Horizontal Flame	
2) CSA International		C(RU) AWM I/II A/B FT2	105°C / 600 V _{RMS}
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	26 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}
2) Capacitance	17.4 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.17 µH/ft, Nominal
4) Conductor DCR	10.2 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 10 x 5 Continuous length
b) 100 FT	6.5 x 4 x 2.5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

www.alphawire.com

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

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 77013

77013 , RoHS-Compliant Commencing With 10/11/2012 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)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

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Alpha Wire
711 Lidgerwood Ave.
Elizabeth, NJ 07207
Tel: 1-908-925-8000