

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. 77120

Construction

				Diameters (In)		
1) Component 1		9 X 1 COND	9 X 1 COND			
a) Conductor		20 (7/28) AWG ⁻	20 (7/28) AWG Tinned Copper		0.038	
b) Insulation		0.010" Wall, Nor	0.010" Wall, Nom. MPPE		0.058	
(1) Color Code		Alpha Wire Colo	Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	4	ORANGE	7	BLUE	
2	BROWN	5	YELLOW	8	VIOLET	
3	RED	6	GREEN	9	SLATE	
2) Cable Assembly		9 Components (9 Components Cabled			
a) Twists:		4.8 Twists/foot (4.8 Twists/foot (min)			
b) Core Wrap		Nonwoven Polye	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		Alum/Mylar Tap	Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In	Foil Facing In			
b) Drain Wire		20 (7/28) AWG ⁻	20 (7/28) AWG Tinned Copper			
4) Jacket		0.032" Wall, Nor	0.032" Wall, Nom.,MPPE		0.284 (0.298 Max.)	
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 / CE ROHS (SEQ	ALPHA WIRE-* P/N 77120 9C 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	87 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	600 V _{RMS}			
2) Capacitance	27 pf/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	49 pf/ft @1 kHz, Nominal			
4) Inductance	0.17 μH/ft, Nominal			
5) Conductor DCR	10.3 Ω/1000ft @20°C, Nominal			
6) OA Shield DCR	8.3 Ω/1000ft @20°C, Nominal			

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	16 x 11 x 8 Continuous length
b) 100 FT	12 x 4.5 x 3.5 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: 77120

77120, RoHS-Compliant Commencing With 10/12/2012 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 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000 2/9/2017