

Request a Sample

Customer Specification PART NO. 79102

Construction

				Diameters (In)		
1) Component 1		3 X 1 COND	3 X 1 COND			
a) Conductor		20 (10/30) AWG Tii	20 (10/30) AWG Tinned Copper		0.036	
b) Insulation		0.0095" Wall, Nom. Ether	0.0095" Wall, Nom. Modified Polyphenylene Ether		0.055	
(1) Color Code		Alpha Wire Color C	Alpha Wire Color Code D			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	2	RED	3	WHITE	
2) Cable Assembly		3 Components Cab	3 Components Cabled			
a) Twists:		9.6 Twists/foot (mir	9.6 Twists/foot (min)			
b) Orientation:		· ·	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap		Nonwoven Polyeste	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield		Tinned Copper BR/	Tinned Copper BRAID Shield,85% Coverage, Min.			
4) Jacket		0.035" Wall, Nom.,I	0.035" Wall, Nom.,MPPE		0.219+/- 0.011	
a) Color(s)		SLATE	SLATE			
b) Jacket Separator		Nonwoven Polyeste	Nonwoven Polyester Tape, 25% Overlap, Min.			
c) Print		ECOFLEX(TM) RU 80C 300V VW-1 CL	ALPHA WIRE-* P/N 79102 3C 20 AWG ECOFLEX(TM) RU AWM 21819 105C 600V OR 21492 80C 300V VW-1 CLASS K C(RU) AWM I/II A/B FT1 600V 105C CE ROHS (SEQ FOOTAGE) * = Factory Code			

Applicable Specifications

1) UL	AWM/STYLE 21819	105°C / 600 V _{RMS}
	AWM/STYLE 21492	80°C / 300 V _{RMS}
	VW-1	
2) CSA International	C(RU) AWM I/II A/B FT1	105C°C / 600V V _{RMS}
3) Other	Halogen-Free	
4) CE:	EU Low Voltage Directive 2014/35/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 2011and the amending Directive 2015/863/EU of 4 June 2015. 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:	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.

Properties

Toportio				
Physical & Mechanical Properties				
1) Temperature Range	-40 to 105°C(static), -5 to 105°C (dynamic)			
2) Bend Radius	6X Cable Diameter(static), 8X Cable Diameter(dynamic)			
3) Pull Tension	27 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	600 V _{RMS}			
2) Capacitance	29 pF/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	52 pF/ft @1 kHz, Nominal			
4) Inductance	0.17 μH/ft, Nominal			
5) Conductor DCR	11.5 Ω/1000ft @20°C, Nominal			
6) OA Shield DCR	6.6 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
	[Spool dimensions may vary slightly]

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 79102

79102, RoHS-Compliant Commencing With 10/22/2012 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.

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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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