

Customer Specification

PART NO. 78104

Construction

					Diamete	ers (In)
1) Component 1	4 X	COND				
a) Conductor 28 (19/40) AW		9/40) AWG Tinned Coppe	G Tinned Copper		0.016	
b) Insulation 0.007" Wall, N		7" Wall, Nom. Modified Po	om. Modified Polyphenylene Ether-PE		0.030	
(1) Color Code Alpha Wire		a Wire Color Code E	Color Code E			
Cond	Color	Cond	Color	Cond		Color
1	BLACK	3	RED			
2	BROWN	4	ORANGE			
2) Cable Assembly	4 Cc	mponents Cabled				
a) Twists: 12.0 Twists/fo		Twists/foot (min)				
b) Orientation: Components t		ponents to be arranged f	be arranged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap Nonwoven Po		woven Polyester Tape, 25	lyester Tape, 25% Overlap, Min.			
3) Shield: Alum/Mylar T		n/Mylar Tape, 25% Overla	Tape, 25% Overlap, Min.			
a) Foil Direction	Foil	Facing In				
b) Drain Wire	28 (7	7/36) AWG Tinned Copper	r			
4) Jacket 0.015" W		15" Wall, Nom.,Modified Polyphenylene Ether-PE			0.111 (0.	119 Max.)
a) Color(s)	Slate	e, Yellow				
b) Ripcord	1 En	d 810 Denier Nylon				
c) Print ECOCABLE(I C(RU) AWM CE ROHS (S		HA WIRE-* P/N 78104 4C CABLE(R) MINI RU AWM 2 J) AWM I A/B FT1 80C 300 OHS (SEQ FOOTAGE) Factory Code	21460 80C 300V VW-1			

Applicable Specifications

1) UL	AWM/STYLE 21460	80°C / 300 V _{RMS}	
	VW-1		
2) CSA International	C(RU) AWM I A/B FT1	80°C / 300 V _{RMS}	
3) IEC	EN 60332-1-2: 2004 Flame Behavior		
4) Other	Halogen-Free		
	NFPA 79 - 2015 Compliant		
	CPR Euroclass: Eca		
5) CE:	EU Low Voltage Directive 2014/35/EU		

Environmental

1) CE: EU Direc	tive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015. No Exemptions are required for RoHS Compliance on this item.
2) REACH Regu	ulation (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.

Properties

Physical & Mechanical Properties		
1) Temperature Range	-40 to 80°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	7.1 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Capacitance	23.9 pF/ft @1 kHz, Nominal Conductor to Conductor	
3) Ground Capacitance	43 pF/ft @1 kHz, Nominal	
4) Inductance	0.19 μH/ft, Nominal	
5) Conductor DCR	63 Ω/1000ft @20°C, Nominal	
6) OA Shield DCR	41 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 5000 FT	13.5 x 10 x 4 Continuous length	
b) 1000 FT	10.5 x 5 x 3.5 Continuous length	
c) 100 FT	6.5 x 2 x 1.9 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	
Notes:		
a) Certain color and put-up combination for S	pecial order only. Minimum order quantity may apply.	

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 78104

78104, RoHS-Compliant Commencing With 7/22/2014 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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). This product also complies with UK - RoHS. 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. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

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 4/27/2024

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