

Customer Specification

PART NO. 78229

Construction

					Diameters (In)
1) Compone	nt 1	9 X 1 PAIR			
a) Conductor 24 (19/36		24 (19/36) AWG Tinn	AWG Tinned Copper		0.025
		0.007" Wall, Nom. Mo	odified Polyphenylene Ether-PE	0.039	
(1) Color Co	de	Alpha Wire Color Cod	de B		`
Pair	Color	Pair	Color	Pair	Color
1	WHITE-BLACK	4	WHITE-ORANGE	7	WHITE-BLUE
2	WHITE-BROW	N 5	WHITE-YELLOW	8	WHITE-VIOLET
3	WHITE-RED	6	WHITE-GREEN	9	WHITE-SLATE
c) Pair		2/Cond Cabled Toget	ther		
(1) Twists:		12.0 Twists/foot (min)		
Individually	Applied:				
d) Shield:		Foil Free Alum/Mylar	Free Alum/Mylar Tape, 25% Overlap, Min.		
(1) Foil Direction		Foil Facing In			
(2) Drain Wire		24 (7/32) AWG Tinned Copper			
2) Cable Assembly 9		9 Components Cabled			
a) Twists: 3.0 T		3.0 Twists/foot (min)			
b) Orientation:		Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction Foil		Foil Facing In	Foil Facing In		
b) Drain Wire 24 (7/3		24 (7/32) AWG Tinne	4 (7/32) AWG Tinned Copper		
4) Jacket 0.01		0.015" Wall, Nom.,Mo	0.015" Wall, Nom.,Modified Polyphenylene Ether-PE		
a) Color(s) SLATE		SLATE			
b) Ripcord 1 End 810		1 End 810 Denier Nyl	Denier Nylon		
c) Print		ALPHA WIRE-* P/N 78229 9PR 24 AWG ECOCABLE(R) MINI RU AWM 21460 80C 300V VW-1 C(RU) AWM I A/B FT1 80C 300V CE ROHS (SEQ FOOTAGE) * = Factory Code			

Applicable Specifications

AWM/STYLE 21460	80°C / 300 V _{RMS}	
VW-1		
C(RU) AWM I A/B FT1	80°C / 300 V _{RMS}	
Halogen-Free		
NFPA 79 - 2015 Compliant		
EU Low Voltage Directive 2014/35/EU		
	VW-1 C(RU) AWM I A/B FT1 Halogen-Free NFPA 79 - 2015 Compliant	

Environmental

1) CE: EU Directive 201	1/65/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 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.

Properties

Physical & Mechanical Properties				
1) Temperature Range	-40 to 80°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	102 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V _{RMS}			
2) Mutual Capacitance	34 pF/ft @1 kHz, Nominal			
3) Ground Capacitance	61 pF/ft @1 kHz, Nominal			
4) Characteristic Impedance	49 Ω			
5) Inductance	0.17 μH/ft, Nominal			
6) Conductor DCR	24.5 Ω/1000ft @20°C, Nominal			
7) Component Shield DCR	21 Ω/1000ft @20°C, Nominal			
8) OA Shield DCR	13.4 Ω/1000ft @20°C, Nominal	13.4 Ω/1000ft @20°C, Nominal		

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	18 x 9 x 8 Continuous length	
b) 100 FT	10.5 x 5 x 3.5 Continuous length	
c) Bulk(Made-to-order)		
[Spool dimensions may vary slightly]		

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 78229

78229, 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 5/2/2024

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