

Customer Specification

PART NO. M1604

Construction

						Diame	eters (ln)
1) Component 1		4 X 1 COND					
·		28 (7/36) AWG Tinr	WG Tinned Copper			0.015	
		0.010" Wall, Nom. F	· ·			0.035	
(1) Color Code		Alpha Wire Color C	ode F				
Cond	Color	Cor	nd	Color	Cond		Color
1	BLACK	3		RED			
2	WHITE	4		GREEN			
2) Cable Assembly		4 Components Cab	led				
a) Twists:		9.6 Twists/foot (mir	n)				
b) Orientation: Component		Components to be	nts to be arranged from INSIDE LAYER to OUTSIDE LAYER				
c) Core Wrap Clear M		Clear Mylar Tape, 2	lear Mylar Tape, 25% Overlap, Min.				
3) Shield Tinned Cop		Tinned Copper BRA	pper BRAID Shield,90% Coverage, Min.				
4) Jacket 0.013" Wall,		0.013" Wall, Nom.,F	Nom.,PVC			0.132	(0.140 Max.)
a) Color(s) SLATE		SLATE	·			- ·	
b) Print CE Ro		ALPHA WIRE-* P/N CE ROHS * = Factory Code	M1604 4C	28 AWG			

Applicable Specifications

1) UL	VW-1		
2) Military			
a) Component 1	MIL-W-16878/Type B	105°C / 600 V _{RMS}	
3) CE:	EU Low Voltage Directive 2014/35/EU		

Environmental

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.	1) CE: EU Directive	e 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):
This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH		the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are
' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	2) REACH Regulati	ion (EC 1907/2006):

Properties

Physical & Mechanical Properties		
1) Temperature Range	-55 to 105℃	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	8 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	0.22 μH/ft, Nominal	
5) Conductor DCR	65 Ω/1000ft @20°C, Nominal	
6) OA Shield DCR	7.8 Ω/1000ft @20°C, Nominal	

Other

10.5 x 5 x 3.5 Continuous length
6.5 x 6 x 1.9 Continuous length
6.5 x 2 x 1.9 Continuous length
[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: M1604

M1604, RoHS-Compliant Commencing With 11/1/2004 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 5/5/2024

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