

Customer Specification PART NO. M1164

Construction

				Diameters (In)		
1) Component 1		4 X 1 COND	4 X 1 COND			
a) Conductor		16 (65/34) AWG TC		0.056	0.056	
b) Insulation		0.016" Wall, Nom. Polyethylene(PE)		0.088	0.088	
(1) Color Code		Alpha Wire Colo	Alpha Wire Color Code H			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	3	RED			
2	WHITE	4	GREEN			
2) Cable Assembly		4 Components 0	4 Components Cabled			
a) Twists:		3.7 Twists/foot (3.7 Twists/foot (min)			
b) Core Wrap		Clear Mylar Tap	Clear Mylar Tape, 25% Overlap, Min.			
3) Shield		TC BRAID Shiel	TC BRAID Shield,90% Coverage, Min.			
4) Jacket		0.035" Wall, No	0.035" Wall, Nom.,PVC		0.308 (0.320 Max.)	
a) Color(s)		SLATE	SLATE			
b) Print		TYPE CM (UL) 7 CE ROHS	ALPHA WIRE-* P/N M1164 4C 16 AWG TYPE CM (UL) 75C OR AWM 2094 CE ROHS * = Factory Code			

Applicable Specifications

1) UL	AWM/STYLE 2094	60°C / 300 V _{RMS}
	СМ	75°C
2) CE:	EU Low Voltage Directive 2006/95/EC	
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Environmental

1) CE: EU Directive 2011/65/EU(RoHS	-7:		
	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

1) Temperature Range	-20 to 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	88 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 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	4.4 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	3.5 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	16 x 11 x 8 Continuous length	
b) 500 FT	12 x 10 x 5 Continuous length	
c) 100 FT	12 x 4.5 x 3.5 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M1164

M1164, RoHS-Compliant Commencing With 7/1/2005 Production

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, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. 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 11364-2006.

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)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

5/1/2013