



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification

PART NO. M1787

Construction

				Diameters (In)	
1) Component 1		27 X 1 COND			
a) Conductor		16 (19/29) AWG TC		0.056	
b) Insulation		0.017" Wall, Nom. PVC/ 0.004" Wall NYLON		0.098	
(1) Color Code		Alpha Wire Color Code F			
Cond	Color	Cond	Color	Cond	Color
1	BLACK	10	ORANGE/BLACK	19	BLUE/RED
2	WHITE	11	BLUE/BLACK	20	RED/GREEN
3	RED	12	BLACK/WHITE	21	ORANGE/GREEN
4	GREEN	13	RED/WHITE	22	BLACK/WHITE/RED
5	ORANGE	14	GREEN/WHITE	23	WHITE/BLACK/RED
6	BLUE	15	BLUE/WHITE	24	RED/BLACK/WHITE
7	WHITE/BLACK	16	BLACK/RED	25	GREEN/BLACK/WHITE
8	RED/BLACK	17	WHITE/RED	26	ORANGE/BLACK/WHITE
9	GREEN/BLACK	18	ORANGE/RED	27	BLUE/BLACK/WHITE
2) Cable Assembly		27 Components Cabled			
a) Twists:		1.3 Twists/foot (min)			
b) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.			
3) Shield		TC BRAID Shield,90% Coverage, Min.			
4) Jacket		0.067" Wall, Nom.,PVC		0.768 (0.806 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N M1787 27C 16 AWG CE ROHS * = Factory Code			

Applicable Specifications

1) UL	VW-1	
2) Military		
a) Component 1	MIL-W-16878/Type C/N	105°C / 1000 V _{RMS}
3) CE:	EU Low Voltage Directive 2006/95/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 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.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-55 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	531 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	1000 V _{RMS}
2) Capacitance	46 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	83 pf/ft @1 kHz, Nominal
4) Inductance	0.18 µH/ft, Nominal
5) Conductor DCR	4.7 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	2.08 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	36 x 14 x 12 Continuous length
b) 500 FT	30 x 14 x 12 Continuous length
c) 100 FT	24 x 14 x 12 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M1787

M1787 , 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)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire Company:

A handwritten signature in black ink, appearing to read 'Dave Watson', is written over a faint, light-colored rectangular stamp.

Dave Watson, Director of Engineering & QA

5/10/2013