



# Customer Specification PART NO. M5656

Construction

				Diameters (In)		
1) Component 1		37 X 1 PAIR				
a) Conductor		24 (7/32) AWG TC		0.024		
b) Insulation		0.010" Wall, Nom. PVC, Semi Rigid		0.044		
(1) Color Code		Alpha Wire Colo	Alpha Wire Color Code B			
Pair	Color	Pair	Color	Pair	Color	
1	WHITE-BLACK	14	BLACK-GREEN	27	RED-GREEN	
2	WHITE-BROWN	15	BLACK-BLUE	28	RED-BLUE	
3	WHITE-RED	16	BLACK-VIOLET	29	RED-VIOLET	
4	WHITE-ORANGE	17	BLACK-SLATE	30	RED-SLATE	
5	WHITE-YELLOW	18	BROWN-RED	31	ORANGE-YELLOW	
6	WHITE-GREEN	19	BROWN-ORANGE	32	ORANGE-GREEN	
7	WHITE-BLUE	20	BROWN-YELLOW	33	ORANGE-BLUE	
8	WHITE-VIOLET	21	BROWN-GREEN	34	ORANGE-VIOLET	
9	WHITE-SLATE	22	BROWN-BLUE	35	ORANGE-SLATE	
10	BLACK-BROWN	23	BROWN-VIOLET	36	YELLOW-GREEN	
11	BLACK-RED	24	BROWN-SLATE	37	YELLOW-BLUE	
12	BLACK-ORANGE	25	RED-ORANGE			
13	BLACK-YELLOW	26	RED-YELLOW			
c) Pair		2/Cond Cabled T	Together			
(1) Twists:		9.6 Twists/foot (r	min)			
2) Cable Assembly		37 Components Cabled				
a) Twists:		1.6 Twists/foot (min)				
b) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.				
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction		Foil Facing Out				
b) Drain Wire		24 (7/32) AWG TC				
c) Braid		TC,70% Coverage, Min.				
4) Jacket		0.063" Wall, Nom.,PVC		0.666 (0.702 Max.)		
a) Color(s)		SLATE				
b) Ripcord		1 End 810 Denier Nylon				
c) Print		ALPHA WIRE-* P/N M5656 37PR 24 AWG  EXXXXXX SHIELDED 75C CMG (UL) C(UL) OR  AWM 2343 CE ROHS  * = Factory Code  [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]				

Applicable Specifications

1) UL			
a) Component 1	AWM/STYLE 1061	80°C / 300 V <sub>RMS</sub>	
b) Overall	CMG	75°C	
	AWM/STYLE 2343	80°C / 300 V <sub>RMS</sub>	
2) CSA International	FT4		
	C(UL) TYPE CMG	75°C	
3) CE: EU Low Voltage Directive 2006/95/EC		/EC	

## Environmental

1) CE: EU Directive 2011/65/EU(RoHS2	2):	
	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 80°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	278 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>	
2) Mutual Capacitance	23.1 pf/ft @1 kHz, Nominal	
3) Ground Capacitance	42 pf/ft @1 kHz, Nominal	
4) Characteristic Impedance	82 Ω	
5) Inductance	0.19 µH/ft, Nominal	
6) Conductor DCR	26 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	1.28 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	24 x 14 x 12 Continuous length	
c) 100 FT	16 x 11 x 8 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: M5656

M5656, 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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usage of the product.

Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

5/14/2013