

## Customer Specification

### PART NO. M1766

### Construction

						Diameters (In)		
1) Component 1						6 X 1 COND		
a) Conductor						16 (19/29) AWG Tinned Copper		0.056
b) Insulation						0.017" Wall, Nom. PVC/ 0.005" Wall NYLON		0.098
(1) Color Code						Alpha Wire Color Code F		
Cond	Color	Cond	Color	Cond	Color			
1	BLACK	3	RED	5	ORANGE			
2	WHITE	4	GREEN	6	BLUE			
2) Cable Assembly						6 Components Cabled		
a) Twists:						2.8 Twists/foot (min)		
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER		
c) Core Wrap						Clear Mylar Tape, 25% Overlap, Min.		
3) Shield						Tinned Copper BRAID Shield,90% Coverage, Min.		
4) Jacket						0.035" Wall, Nom.,PVC		0.390 (0.410 Max.)
a) Color(s)						SLATE		
b) Print						ALPHA WIRE-* P/N M1766 6C 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 <sub>RMS</sub>
3) CE:	EU Low Voltage Directive 2014/35/EU	

### Environmental

1) CE: EU Directive 2011/65/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	-55 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	124 Lbs, Maximum
Electrical Properties	
	(For Engineering purposes only)
1) Voltage Rating	1000 V <sub>RMS</sub>
2) Capacitance	47 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	85 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	2.6 Ω/1000ft @20°C, Nominal

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	18 x 14.25 x 8 Continuous length
b) 500 FT	18 x 9 x 8 Continuous length
c) 100 FT	12 x 5.94 x 5 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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