

## Customer Specification

### PART NO. M1605

### Construction

						Diameters (In)		
1) Component 1						5 X 1 COND		
a) Conductor						28 (7/36) AWG Tinned Copper		0.015
b) Insulation						0.010" Wall, Nom. PVC		0.035
(1) Color Code						Alpha Wire Color Code F		
Cond	Color	Cond	Color	Cond	Color			
1	BLACK	3	RED	5	ORANGE			
2	WHITE	4	GREEN					
2) Cable Assembly						5 Components Cabled		
a) Twists:						9.6 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						0.014" Wall, Nom.,PVC		0.144 (0.153 Max.)
a) Color(s)						SLATE		
b) Print						ALPHA WIRE-* P/N M1605 5C 28 AWG CE ROHS * = Factory Code		

### Applicable Specifications

1) UL	VW-1	
2) Military		
a) Component 1	MIL-W-16878/Type B	105°C / 600 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	9.8 Lbs, Maximum
Electrical Properties	
	(For Engineering purposes only)
1) Voltage Rating	600 V <sub>RMS</sub>
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	66 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	6.6 Ω/1000ft @20°C, Nominal

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	10.5 x 5 x 3.5 Continuous length
b) 500 FT	6.5 x 6 x 1.9 Continuous length
c) 100 FT	6.5 x 2 x 1.9 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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