

Customer Specification

PART NO. M4201

Construction

				Diameters (In)	
1) Component 1		1 X 1 COAX			
a) Conductor		13 (7/21) AWG BC		0.086	
b) Insulation		0.0995" Wall, Nom. Polyethylene(PE)		0.285	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	CLEAR				
2) Shield		BC BRAID Shield,95% Coverage, Min.			
3) Jacket		0.044" Wall, Nom.,Type IIA PVC		0.405+/- 0.007	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N M4201 RG-8A/U TYPE EXXXXX 60C 1C13 SHIELDED CMX (UL) C(UL) OR AWM 1354 CE ROHS * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>			

Applicable Specifications

1) UL	AWM/STYLE 1354	60°C / 30 V _{RMS}
	CMX	60°C
2) CSA International	C(UL) TYPE CMX	60°C
3) Military	MIL-C-17D/3A RG-8A/U	60°C / 3700 V _{RMS}
4) 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.
3) California Proposition 65:	
	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-40 to 60°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	61 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	3700 V _{RMS}
2) Characteristic Impedance	52 Ω +/- 2
3) Inductance	0.079 μH/ft, Nominal
4) Ground Capacitance	28.5 pf/ft @1 kHz, Nominal
5) Velocity of Propagation	66 %
6) Conductor DCR	1.9 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	1.2 Ω/1000ft @20°C, Nominal
8) Voltage Withstanding	10 kV, Minimum
9) Corona Extinction	5 kV, Minimum
10) Attenuation, Nom dB/100ft	0.2 @ 1 MHz
	0.6 @ 10 MHz
	1.3 @ 50 MHz
	1.9 @ 100 MHz
	2.8 @ 200 MHz
	4.2 @ 400 MHz

	5.9 @ 700 MHz
	6.9 @ 900 MHz
	7.4 @ 1 GHz

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	20 x 11 x 8 Continuous length
b) 500 FT	16 x 11 x 8 Continuous length
c) 100 FT	12 x 10 x 5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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