

Customer Specification

PART NO. M4219

Construction

				Diameters (In)	
1) Component 1		1 X 1 COAX			
a) Conductor		21 (19/.0071) AWG TC		0.036	
b) Insulation		0.0405" Wall, Nom. Polyethylene(PE)		0.117	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	CLEAR				
2) Shield		TC BRAID Shield,91% Coverage, Min.			
3) Jacket		0.032" Wall, Nom., Type I PVC		0.203+/- 0.003	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N M4219 RG-58A/U TYPE US PAT 6815617 1C20 SHIELDED EXXXXX CM (UL) C(UL) CE ROHS (SEQ FOOTAGE 2-FT) * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>			

Applicable Specifications

1) UL	CM	60°C
2) CSA International	C(UL) TYPE CM	60°C
3) Military	JAN-C-17A/RG 58A/U TYPE	75°C / 1400 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 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	12.1 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	1400 V _{RMS}
2) Characteristic Impedance	50 Ω +/- 2.5
3) Inductance	0.092 μH/ft, Nominal
4) Ground Capacitance	30.8 pf/ft @1 kHz, Nominal
5) Velocity of Propagation	66 %
6) Conductor DCR	10.8 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	4.1 Ω/1000ft @20°C, Nominal
8) Voltage Withstanding	5 kV, Minimum
9) Corona Extinction	1.9 kV, Minimum
10) Attenuation, Nom dB/100ft	0.4 @ 1 MHz
	1.5 @ 10 MHz
	3.7 @ 50 MHz
	5.4 @ 100 MHz
	8.1 @ 200 MHz
	12.4 @ 400 MHz
	17.7 @ 700 MHz

	21.1 @ 900 MHz
	22.8 @ 1 GHz

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 10 x 5 Continuous length
b) 500 FT	12 x 4.5 x 3.5 Continuous length
c) 100 FT	6.5 x 4 x 2.5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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