

Customer Specification

PART NO. M4213

Construction

		Diameters (In)			
1) Component 1		1 X 1 COAX			
a) Conductor		21 (19/.0072) AWG TC		0.036	
b) Insulation		0.040" Wall, Nom. Polyethylene(PE)		0.116	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	CLEAR				
2) Shield		TC BRAID Shield,94% Coverage, Min.			
3) Jacket		0.028" Wall, Nom., Type IIA PVC		0.195+/- 0.004	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N M4213 RG 58C/U ROHS * = Factory Code			

Applicable Specifications

1) Military	MIL-C-17/28B RG 58C/U	75°C / 1400 V _{RMS}
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Environmental

1) EU Directive 2011/65/EU(RoHS2):	
	All materials used in the manufacture of this part are in compliance with European Directive 2011/65/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. 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	12.3 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	1400 V _{RMS}
2) Characteristic Impedance	50 Ω +/- 2
3) Inductance	0.077 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
	1.4 @ 10 MHz
	3.3 @ 50 MHz
	4.9 @ 100 MHz
	7.3 @ 200 MHz
	11.5 @ 400 MHz
	17 @ 700 MHz
	20 @ 900 MHz
	21.5 @ 1 GHz

Other

Packaging	Flange x Traverse x Barrel (inches)
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a) 1000 FT	12 x 6 x 3.5 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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