

Customer Specification

PART NO. M4223

Construction

				Diameters (In)	
1) Component 1		1 X 1 COAX			
a) Conductor		23 (SOLID) AWG BCW		0.023	
b) Insulation		0.0615" Wall, Nom. Polyethylene(PE)		0.146	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	NATURAL				
2) Shield		BC BRAID Shield,94% Coverage, Min.			
3) Jacket		0.033" Wall, Nom.,Type IIA PVC		0.241+/- 0.003	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N M4223 RG-59B/U TYPE EXXXXX 60C 1C23 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	CMX	60°C
	AWM/STYLE 1354	60°C / 30 V _{RMS}
2) CSA International	C(UL) TYPE CMX	60°C
3) Military	MIL-C-17D/29B RG-59B/U	60°C / 1700 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	-20 to 60°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	11.3 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	1700 V _{RMS}
2) Characteristic Impedance	75 Ω +/- 3
3) Inductance	0.115 μH/ft, Nominal
4) Ground Capacitance	20.5 pf/ft @1 kHz, Nominal
5) Velocity of Propagation	66 %
6) Conductor DCR	49 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	2.6 Ω/1000ft @20°C, Nominal
8) Voltage Withstanding	7 kV, Minimum
9) Corona Extinction	2.3 kV, Minimum
10) Attenuation, Nom dB/100ft	0.6 @ 1 MHz
	1.1 @ 10 MHz
	2.4 @ 50 MHz
	3.4 @ 100 MHz
	4.9 @ 200 MHz
	7 @ 400 MHz
	9.7 @ 700 MHz
	11.1 @ 900 MHz
	12 @ 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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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M4223

M4223 , RoHS-Compliant Commencing With 2/1/2006 Production

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item.** It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2006.

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE) , Including Deca-BDE	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

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