

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Request a Sample

# 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 [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

#### Applicable Specifications

1) UL	СМХ	60°C
	AWM/STYLE 1354	60°C / 30 V <sub>RMS</sub>
2) CSA International	C(UL) TYPE CMX	60°C
3) Military	MIL-C-17D/29B RG-59B/U	60°C / 1700 V <sub>RMS</sub>
4) CE:	EU Low Voltage Directive 2006/95/EC	

#### 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.	
3) California Proposition 65:	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.	

#### 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 <sub>RMS</sub>	
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
	[Spool dimensions may vary slightly]

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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

Note: all colors and put-ups

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 (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. 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 11364-2014.

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)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000 5/26/2020