

Request a Sample

# Customer Specification PART NO. 2219/23C

#### Construction

				Diameters (In)		
1) Component 1		23 X 1 PAIR				
a) Conductor		22 (7/30) AWG TC		0.030	0.030	
b) Insulation		0.010" Wall, Nom. PVC		0.050	0.050	
(1) Color Code		Alpha Wire Color Code A				
Pair	Color	Pair	Color	Pair	Color	
1	BLACK-RED	9	RED-WHITE	17	GREEN-ORANGE	
2	BLACK-WHITE	10	RED-BLUE	18	GREEN-YELLOW	
3	BLACK-GREEN	11	RED-YELLOW	19	WHITE-BLUE	
4	BLACK-BLUE	12	RED-BROWN	20	WHITE-BROWN	
5	BLACK-BROWN	13	RED-ORANGE	21	WHITE-ORANGE	
6	BLACK-YELLOW	14	GREEN-BLUE	22	WHITE-YELLOW	
7	BLACK-ORANGE	15	GREEN-WHITE	23	BLUE-BROWN	
8	RED-GREEN	16	GREEN-BROWN			
c) Pair		2/Cond Cabled Together				
(1) Twists:		8.0 Twists/foot (min)				
2) Cable Assembly		23 Components Cabled				
a) Twists:		1.8 Twists/foot (min)				
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction		Foil Facing Out				
b) Drain Wire		22 (7/30) AWG TC				
4) Jacket		0.040" Wall, Nom.,PVC		0.545 (0.573 M	Лах.)	
a) Color(s)		SLATE				
b) Print		ALPHA WIRE-* P/N 2219/23C 23PR 22 AWG SHIELDED 75C (UL) TYPE CM OR AWM 2576 LLXXXXXX CSA TYPE CMG FT4 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]				

**Applicable Specifications** 

1) UL	AWM/STYLE 2576	80°C / 150 V <sub>RMS</sub>
	СМ	75°C
	VW-1	
2) CSA International	СМС	60°C
	FT4	
3) 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 80°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	258 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	150 V <sub>RMS</sub>			
2) Mutual Capacitance	35 pf/ft @1 kHz, Nominal			
3) Ground Capacitance	63 pf/ft @1 kHz, Nominal			
4) Characteristic Impedance	65 Ω			
5) Inductance	0.18 μH/ft, Nominal			
6) Conductor DCR	16.6 Ω/1000ft @20°C, Nominal			
7) OA Shield DCR	9.2 Ω/1000ft @20°C, Nominal			

#### Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	30 x 14 x 12 Continuous length
b) 500 FT	20 x 11 x 8 Continuous length
c) 100 FT	16 x 11 x 8 Continuous length
	[Spool dimensions may vary slightly]

www.alphawire.com

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

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#### **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 2219/23C

2219/23C, RoHS-Compliant Commencing With 8/1/2005 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 2/9/2017