

Customer Specification

PART NO. 2219/23C

Construction

		Diameters (In)			
1) Component 1		23 X 1 PAIR			
a) Conductor		22 (7/30) AWG TC			
b) Insulation		0.010" Wall, Nom. PVC		0.050	
(1) Color Code		Alpha Wire Company 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 Max.)	
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 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 _{RMS}
	CM	75°C
	VW-1	
2) CSA International	CMG	60°C
	FT4	

Environmental

1) EU Directive 2002/95/EC(RoHS):	
	All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.
2) 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 _{RMS}
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

1) Packaging	
a) 1000 FT	
b) 500 FT	
c) 100 FT	

www.alphawire.com

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:2219/23C

2219/23C , RoHS-Compliant Commencing With8/1/2005Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, 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 these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% 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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