

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 5102C
Page 1 of 2 Pages

Issue: 11
Issue Date: 1/29/2008
Effective Date: 3/1/2008

A. Construction

				<u>Diameters</u>
1)	Component 1	2 X 1 COND		
a)	Conductor	22 (7/30) AWG TC		
b)	Insulation	0.010" Wall, Nom. PVC, Semi Rigid		0.050
(1)	Color Code	Alpha Wire Color Code E		
2)	Cable Assembly	2 Components Cabled		
a)	Twists:	12.0 Twists/foot (min)		
b)	Core Wrap	Nonwoven Polyester Tape, 25% Overlap, Min.		
3)	Shield:	A/P/A Tape, 25% Overlap, Min.		
a)	Drain Wire	22 (7/30) AWG TC		
b)	Braid	TC,70% Coverage, Min.		
4)	Jacket	0.032" Wall, Nom.,PVC		0.196 (0.206 Max.)
a)	Color(s)	Gray, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White		
b)	Ripcord	1 End 810 Denier Nylon		
c)	Print	ALPHA WIRE-* P/N 5102C 2C 22 AWG		
		XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME		
		ENVIRONMENTS - SHIELDED 105C (UL) TYPE CM OR AWM		
		2464 VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4		
		CE ROHS <SEQ FOOTAGE>		
		* = Factory Code		

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

B. Industry Approvals

1)	UL	AWM/STYLE10002	105°C / 300V
	a)	Component 1	80°C / 300V
	b)	Overall	CM
		VW-1	105°C
2)	CSA International	CMG	105°C
		FT4	
3)	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.	
4)	California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.	
5)	CE:	LVD 73/23/EEC Amendment 93/68/EEC	

C. Physical & Mechanical Properties

1)	Temperature Range	-20 to 105°C
2)	Bend Radius	10X Cable Diameter
3)	Pull Tension	19.1 Lbs, Maximum
4)	Sunlight Resistance	Yes

D. Electrical Properties

1)	Voltage Rating	300 V _{RMS}
2)	Capacitance	39 pf/ft @1 kHz, Nominal Conductor to Conductor
3)	Ground Capacitance	70 pf/ft @1 kHz, Nominal
4)	Characteristic Impedance	48 Ω
5)	Inductance	0.18 μH/ft, Nominal
6)	Conductor DCR	16.4 Ω/1000ft @20°C, Nominal
7)	OA Shield DCR	4.6 Ω/1000ft @20°C, Nominal

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E. Other

- 1) Packaging
 - a) 1000 FT
 - b) 500 FT
 - c) 100 FT
 - d) Bulk(Made-to-order)

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