

# Customer Specification PART NO. 5470/40C

Construction

				Diameters (In)		
1) Component 1		40 X 1 COND	40 X 1 COND			
a) Conductor		20 (7/28) AWG TC	20 (7/28) AWG TC		0.038	
b) Insulation		0.016" Wall, Nom. F	0.016" Wall, Nom. PVC		0.070	
(1) Color Code		Alpha Wire Color C	Alpha Wire Color Code D			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	15	RED/BLACK	29	WHITE/BLACK/BROW N	
2	RED	16	WHITE/BLACK	30	WHITE/BLACK/ORAN GE	
3	WHITE	17	WHITE/RED	31	WHITE/BLACK/SLATE	
4	GREEN	18	WHITE/GREEN	32	WHITE/BLACK/VIOLE T	
5	ORANGE	19	WHITE/YELLOW	33	WHITE/BLACK/BLAC K	
6	BLUE	20	WHITE/BLUE	34	WHITE/RED/BLACK	
7	BROWN	21	WHITE/BROWN	35	WHITE/RED/RED	
8	YELLOW	22	WHITE/ORANGE	36	WHITE/RED/GREEN	
9	VIOLET	23	WHITE/SLATE	37	WHITE/RED/BLUE	
10	SLATE	24	WHITE/VIOLET	38	WHITE/RED/BROWN	
11	PINK	25	WHITE/BLACK/RED	39	WHITE/RED/VIOLET	
12	TAN	26	WHITE/BLACK/GREE N	40	WHITE/GREEN/BLAC	
13	RED/GREEN	27	WHITE/BLACK/YELL OW			
14	RED/YELLOW	28	WHITE/BLACK/BLUE			
2) Cable Assembly	2) Cable Assembly		40 Components Cabled			
a) Twists:		2.0 Twists/foot (min	2.0 Twists/foot (min)			
b) Core Wrap		Nonwoven Polyeste	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		Alum/Mylar Tape, 2	Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In	Foil Facing In			
b) Drain Wire		20 (7/28) AWG TC	20 (7/28) AWG TC			
4) Jacket		0.053" Wall, Nom.,	0.053" Wall, Nom.,PVC		0.626 (0.653 Max.)	
a) Color(s)		Slate, Black, Yellov	Slate, Black, Yellow, Orange, Blue, Green, Red		te	
b) Ripcord		1 End 810 Denier I	1 End 810 Denier Nylon			
c) Print		XTRAGUARD(R) 1 2464 VW-1 LLX CE ROHS (SEQ FO * = Factory Code	ALPHA WIRE-* P/N 5470/40C 40C 20 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C 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.]			

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 1569	105°C / 300 V <sub>RMS</sub>
b) Overall		80°C / 300 V <sub>RMS</sub>
		105°C
	VW-1	
2) CSA International	СМС	105°C
	FT4	
3) CE:	LVD 73/23/EEC Amendment 93/68/EEC	

# 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) REACH Regulation (EC 1907/2006):				
	This product does not contain any of the substances listed on the 13 January 2010 European Union's REACH Substance of Very High Concern (SVHC) candidate list in excess of 0.1% mass of the item.			
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.			

### **Properties**

10001100				
Physical &Mechanical Properties				
1) Temperature Range	-30 to 105°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	358 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V <sub>RMS</sub>			
2) Capacitance	44 pf/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	79 pf/ft @1 kHz, Nominal			
4) Inductance	0.19 μH/ft, Nominal			
5) Conductor DCR	10.4 /1000ft @20°C, Nominal			
6) OA Shield DCR	6.4 /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	24 x 14 x 12 Continuous length
c) 100 FT	16 x 11 x 8 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

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

#### RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:5470/40C

5470/40C, 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	<b>Maximum Control Value</b>
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) Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)
Including Deca-BDE	0.1% by weight (1000 ppm)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

1/21/2011