

# Customer Specification PART NO. 5070/20C

#### Construction

				Diameters (In)			
1) Component 1		20 X 1 COND					
a) Conductor		18 (16/30) AWG TC		0.047	0.047		
b) Insulation		0.016" Wall, Nom. PVC		0.079			
(1) Color Code		Alpha Wire Co	Alpha Wire Color Code D				
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	8	YELLOW	15	RED/BLACK		
2	RED	9	VIOLET	16	WHITE/BLACK		
3	WHITE	10	SLATE	17	WHITE/RED		
4	GREEN	11	PINK	18	WHITE/GREEN		
5	ORANGE	12	TAN	19	WHITE/YELLOW		
6	BLUE	13	RED/GREEN	20	WHITE/BLUE		
7	BROWN	14	RED/YELLOW				
2) Cable Assembly		20 Component	20 Components Cabled				
a) Twists:		2.4 Twists/foot	2.4 Twists/foot (min)				
b) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.		in.			
3) Jacket		0.032" Wall, Nom.,PVC		0.484 (0.503 M	lax.)		
a) Color(s)		Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White					
b) Ripcord		1 End 810 Der	1 End 810 Denier Nylon				
c) Print		XTRAGUARD( LLXXXXXX ROHS (SEQ FO * = Factory Coo	ALPHA WIRE-* P/N 5070/20C 20C 18 AWG  XTRAGUARD(R) 1 (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** 

AWM/STYLE 1569	105°C / 300 V <sub>RMS</sub>
AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>
СМ	105°C
VW-1	
CMG	105°C
FT4	
3) CE: EU Low Voltage Directive 2006/95/EC	
	AWM/STYLE 2464 CM VW-1 CMG FT4

## Environmental

product complies with European Directive 2011/65/EU (RoHS Directive) of the European ament and of the Council of 8 June 2011. No Exemptions are required for RoHS				
pliance on this item. Consult Alpha Wire's web site for RoHS C of C.				
2) REACH Regulation (EC 1907/2006):				
product does not contain Substances of Very High Concern (SVHC) listed on the European n's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, se see Alpha's REACH SVHC Declaration.				
outer surface materials used in the manufacture of this part meet the requirements of ornia Proposition 65.				

**Properties** 

1) Temperature Range	-30 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	251 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V <sub>RMS</sub>
2) Capacitance	33 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.18 μH/ft, Nominal
4) Conductor DCR	7.3 Ω/1000ft @20°C, Nominal

### Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	24 x 14 x 12 Continuous length	
b) 500 FT	18 x 12 x 8 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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### **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 5070/20C

5070/20C, RoHS-Compliant Commencing With 8/1/2005 Production

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, 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 this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. 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 11364-2006.

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)	

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

4/23/2013