



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

# Customer Specification

## PART NO. 85005CY

### Construction

				Diameters (In)			
1) Component 1	1 X 5 COND						
a) Conductor	20 (63(7x9)/38) AWG BC			0.040			
b) Insulation	0.022" Wall, Nom. PVC			0.084			
(1) Print	ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED						
(2) Color(s)							
Cond	Color	Cond	Color	Cond	Color		
1	RED #1	3	RED #3	5	YELLOW/GREEN/GREEN		
2	RED #2	4	RED #4				
c) Cabling	5 COND Cabled						
(1) Twists:	5.3 Twists/foot (min)						
(2) Core Wrap	REMAY Tape, 25% Overlap, Min.						
d) Jacket	0.025" Wall, Nom.,PVC, Oil Resistant			0.303+- 0.018			
(1) Color(s)	BLACK						
(2) Jacket Separator	Tissue Tape, 25% Overlap, Min.						
2) Shield	TC BRAID Shield,85% Coverage, Min.						
3) Jacket	0.040" Wall, Nom.,PVC, Oil Resistant			0.411+- 0.026			
a) Color(s)	BLACK						
b) Jacket Separator	Tissue Tape, 25% Overlap, Min.						
c) Print	ALPHA WIRE-* P/N 85005CY 5C 20 AWG XTRAGUARD(R) CONTINUOUS FLEX CONTROL CABLE RU AWM 2587 CONSTANT FLEXING --- LLXXXXXX CSA AWM I/II A/B FT1 90C 600V 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 10012	90°C / 600 V <sub>RMS</sub>
b) Overall	AWM/STYLE 2587	90°C / 600 V <sub>RMS</sub>
2) CSA International	AWM I/II A/B	90°C / 600 V <sub>RMS</sub>
	FT1	
3) Other	VDE 0472, Section 803 Oil Test	
4) CE:	EU Low Voltage Directive 2006/95/EC	

## 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 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	-40 to 90°C(static), -5 to 90°C (dynamic)
2) Bend Radius	8X Cable Diameter(static), 8X Cable Diameter(dynamic)
3) Pull Tension	47 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	600 V <sub>RMS</sub>
2) Capacitance	39 pf/ft @ 1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	70 pf/ft @ 1 kHz, Nominal
4) Inductance	0.2 µH/ft, Nominal
5) Conductor DCR	10.7 /1000ft @ 20°C, Nominal

## Other

<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 500 FT	16 x 11 x 8 Continuous length
c) 100 FT	12 x 10 x 5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure there accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

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## RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:85005CY

85005CY , RoHS-Compliant Commencing With 10/1/2005 Production

*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	0.01% 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)	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:

A handwritten signature in black ink, appearing to read "Dave Watson".

Dave Watson, Director of Engineering & QA

11/1/2012