

## Customer Specification

### PART NO. 85904

### Construction

					Diameters (In)
1) Component 1	4 X 1 COND				
a) Conductor	8 (266(7x38)/32) AWG Bare Copper				0.166
b) Insulation	0.032" Wall, Nom. PVC				0.230
(1) Print	ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED				
(2) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	RED #1	3	RED #3		
2	RED #2	4	YELLOW/GREEN/GREEN		
2) Cable Assembly	4 Components Cabled				
a) Twists:	2.2 Twists/foot (min)				
b) Orientation:	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER				
c) Core Wrap	REMAI Tape, 25% Overlap, Min.				
3) Jacket	0.070" Wall, Nom., PVC, Oil Resistant				0.721+/- 0.023
a) Color(s)	BLACK				
b) Jacket Separator	Tissue Tape, 25% Overlap, Min.				
c) Print	ALPHA WIRE-* P/N 85904 4C 8 AWG XTRAGUARD(R) CONTINUOUS FLEX CONTROL CABLE RU AWM 2587 OR CRU AWM I/II A/B FT1 90C 600V CE ROHS (SEQ FOOTAGE) * = Factory Code				

### 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	C(RU) 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 2014/35/EU	

# Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item.
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.
3) California Proposition 65:	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.

# 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	535 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	600 V <sub>RMS</sub>
2) Capacitance	34 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.15 µH/ft, Nominal
4) Conductor DCR	0.65 Ω/1000ft @20°C, Nominal

# Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	36 x 14 x 12 Continuous length
b) 500 FT	30 x 14 x 12 Continuous length
c) 100 FT	18 x 9 x 8 Continuous length
	[Spool dimensions may vary slightly]

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## EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 85904

85904, RoHS-Compliant Commencing With 1/1/2008 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, is manufactured in accordance with Directive 2002/95/EC (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). This product complies with these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item.** This product complies with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product

### Substance

Lead  
Mercury  
Cadmium  
Hexavalent Chromium  
Polybrominated Biphenyls (PBB)  
Polybrominated Diphenyl Ethers (PBDE) ,  
Including Deca-BDE  
Bis(2-ethylhexyl) phthalate (DEHP)  
Butyl benzyl phthalate (BBP)  
Dibutyl phthalate (DBP)  
Diisobutyl phthalate (DIBP)

### Maximum Control Value

0.1% by weight (1000 ppm)  
0.1% by weight (1000 ppm)  
0.01% by weight (100 ppm)  
0.1% by weight (1000 ppm )  
0.1% by weight (1000 ppm)  
  
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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 issuance. This document is intended to serve 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 is not to provide a warranty of any kind. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation to their product.

Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 4/11/2024

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# Mouser Electronics

Authorized Distributor

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