

# Customer Specification

## PART NO. 2827/5

### Construction

		Diameters (In)			
1) Component 1		5 X 1 COND			
a) Conductor		20 (19/32) AWG SPC		0.040	
b) Insulation		0.009" Wall, Nom. PTFE		0.058	
(1) Color Code		Alpha Wire Color Code G			
Cond	Color	Cond	Color	Cond	Color
1	WHITE	3	RED	5	YELLOW
2	BLACK	4	GREEN		
2) Cable Assembly		5 Components Cabled			
a) Twists:		5.3 Twists/foot (min)			
3) Shield		SPC BRAID Shield,90% Coverage, Min.			
4) Jacket		0.012" Wall, Nom.,PTFE Tape		0.203 (0.220 Max.)	
a) Color(s)		WHITE			

### Applicable Specifications

1) Military		
a) Component 1	MIL-W-16878/4 (Type E)	200°C / 600 V <sub>RMS</sub>
2) Other		
a) Component 1	NEMA HP3-EXBGE	200°C / 600 V <sub>RMS</sub>

### 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) 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	-55 to 200°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	52 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	600 V <sub>RMS</sub>
2) Capacitance	27 pf/ft @ 1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	49 pf/ft @ 1 kHz, Nominal
4) Inductance	0.16 µH/ft, Nominal
5) Conductor DCR	8.8 /1000ft @20°C, Nominal
6) OA Shield DCR	4.7 /1000ft @20°C, Nominal

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 10 x 5 Max. 3 separate pieces; Min length/piece 100 FT.
b) 100 FT	6.5 x 4 x 2.5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207

Tel: 1-800-52 ALPHA (25742)

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## EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 2827/5

2827/5 , RoHS-Compliant Commencing With 7/1/2005 Production

This document certifies that the Alpha part number cited above are manufactured in accordance with Directive 2011/65/EC 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 these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance China RoHS “Marking for Control of Pollution by Electronic Information Products” standard SJ/T 11364-2006.

<b>Substance</b>	<b>Maximum Control Value</b>
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)

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Authorized Signatory for the Alpha Wire Company:



Dave Watson, Director of Engineering & QA

1/10/2013