

## Customer Specification

**PART NO. 2827**

## Construction

						Diameters (In)	
1) Component 1						1 X 1 COND	
a) Conductor						20 (19/32) AWG Silver Plated Copper	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						
2) Shield						Silver Platted Copper BRAID Shield,90% Coverage, Min.	
3) Jacket						0.010" Wall, Nom.,PTFE Tape	0.100 (0.109 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>
3) CE:	EU Low Voltage Directive 2014/35/EU	

## Environmental

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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	-55 to 200°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	12.2 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	600 V <sub>RMS</sub>
2) Ground Capacitance	80 pF/ft @1 kHz, Nominal
3) Inductance	0.023 µH/ft, Nominal
4) Conductor DCR	8.7 Ω/1000ft @20°C, Nominal
5) OA Shield DCR	7 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	6.5 x 6 x 1.9 Max. 3 separate pieces; Min length/piece 100 FT.
b) 100 FT	3.5 x 3 x 1.125 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

[www.alphawire.com](http://www.alphawire.com)

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Alpha 2011/65/EU RoHS2 2015/863/EU  
RoHS SJ/T 11364-2014

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Lead	□□□□□□□□□□0.1% (1000 ppm)
Mercury	□□□□□□□□□□0.1% (1000 ppm)
Cadmium	□□□□□□□□□□0.01% (100 ppm)
Hexavalent Chromium	□□□□□□□□□□0.1% (1000 ppm)
Polybrominated Biphenyls (PBB)	□□□□□□□□□□0.1% (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE), Including Deca-BDE	□□□□□□□□□□0.1% (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	□□□□□□□□□□0.1% (1000 ppm)
Butyl benzyl phthalate (BBP)	□□□□□□□□□□0.1% (1000 ppm)
Dibutyl phthalate (DBP)	□□□□□□□□□□0.1% (1000 ppm)
Diisobutyl phthalate (DIBP)	□□□□□□□□□□0.1% (1000 ppm)

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