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□□□ **2821/3** 

## **Construction**

					Diameters (In)		
1) Com	ponent 1					3 X 1 COND	
a) Cond	uctor					24 (19/36) AWG Silver Plated Copper	0.025
b) Insul	ation					0.010" Wall, Nom. PTFE	0.044
(1) Colo	r Code					Alpha Wire Color Code G	
Cond Color Cond Color Cond Color			Cond	Color			
1	WHITE	2	BLACK	3	RED		
2) Cable Assembly					3 Components Cabled		
a) Twists:					9.6 Twists/foot (min)		
b) Orientation:					Components to be arranged from INSIDE LAYER to OUTSIDE LAYER		
3) Shield					Silver Platted Copper BRAID Shield,90% Coverage, Min.		
4) Jacket					0.012" Wall, Nom.,PTFE Tape	0.143 (0.157 Max.)	
a) Color(s)					WHITE		
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## **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-EXBEE	200°C / 600 V <sub>RMS</sub>
3) CE:	EU Low Voltage Directive 2014/35/EU	
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## **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	-55 to 200°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	14.5 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	600 V <sub>RMS</sub>			
2) Capacitance	20.7 pF/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	37 pF/ft @1 kHz, Nominal			
4) Inductance	0.18 μH/ft, Nominal			
5) Conductor DCR	22.5 Ω/1000ft @20°C, Nominal			
6) OA Shield DCR	5.7 Ω/1000ft @20°C, Nominal			

### **Other**

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	10.5 x 5 x 3.5 Max. 3 separate pieces; Min length/piece 100 FT.	
b) 100 FT	6.5 x 2 x 1.9 Continuous length	
	[Spool dimensions may vary slightly]	

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

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