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#### **Construction**

						Diameters (In)			
1) Co	mponent 1					9 X 1 PAIR			
a) Co	nductor					24 (7/32) AWG Tinned Copper	0.024		
b) Ins	sulation					0.010" Wall, Nom. FEP	0.044		
(1) C	olor Code					Alpha Wire Color Code A			
Pair	Color	Pair	Color	Pair	Color				
1	BLACK-RED	4	BLACK- BLUE	7	BLACK- ORANGE				
2	BLACK- WHITE	5	BLACK- BROWN	8	RED-GREEN				
3	BLACK- GREEN	6	BLACK- YELLOW	9	RED-WHITE	TE			
c) Pair						2/Cond Cabled Together			
(1) Twists:						9.6 Twists/foot (min)			
2) Cable Assembly						9 Components Cabled			
a) Twists:						3.2 Twists/foot (min)			
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap						PTFE(skived) Tape, 25% Overlap, Min.			
3) Shield:						Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction						Foil Facing In			
b) Drain Wire						24 (7/32) AWG Tinned Copper			
4) Jacket						0.027" Wall, Nom.,FEP	0.329 (0.348 Max.)		
a) Tint Color(s)						Natural Tan, Slate, Black, Yellow, Orange, Blue, Green, Red, White			
b) Ripcord						Para-Aramid fiber(Kevlar, Twaron or equal)			
c) Marker Tape						ALPHA WIRE-* XTRAGUARD(R) 5 - 24 AWG SHIELDED 150C (UL) CMP OR AWM 20229 LLXXXXXX CSA CMP FT6 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

# **Applicable Specifications**

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1) UL	СМР	150°C	
	AWM/STYLE 20229	150°C / 300 V <sub>RMS</sub>	
2) CSA International	СМР	150°C	
	FT6		
3) CE:	EU Low Voltage Directive 2014/35/EU		

## **Environmental**

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.
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.
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	-80 to 200°C			
2) Bend Radius	10X Cable Diameter	10X Cable Diameter		
3) Pull Tension	67 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V <sub>RMS</sub>			
2) Mutual Capacitance	13.8 pF/ft @1 kHz, Nominal			
3) Ground Capacitance	24.8 pF/ft @1 kHz, Nominal			
4) Characteristic Impedance	106 Ω			
5) Inductance	0.19 μH/ft, Nominal			
6) Conductor DCR	26 Ω/1000ft @20°C, Nominal			
7) OA Shield DCR	7.2 Ω/1000ft @20°C, Nominal			

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) Bulk(Made-to-order)	

#### www.alphawire.com

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□□□□□□□□0.1% (1000 ppm) Lead Mercury □□□□□□□□0.01% (100 ppm) Cadmium Hexavalent Chromium □□□□□□□□0.1% (1000 ppm) □□□□□□□□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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