

Customer Specification

PART NO. 6321

Construction

						Diameter ("in")		
1) Component 1						7 x 1 PAIR		
a) Co	nductor					24 (7/32) AWG Tinned Copper	0.024	
b) Ins	sulation					0.019" Wall, Nom. Polyethylene, Foam	0.062	
(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					
3	BLACK- GREEN	6	BLACK- YELLOW					
c) Pa	ir					2/Cond Cabled Together		
(1) Tı	wists					6.9 Twists/foot (min.)		
Indiv	idually Applie	d						
d) Sh	ield					Foil Free Alum/Mylar Tape, 25% Overlap (min.)		
(1) Fo	oil Direction					Foil Facing In		
(2) D	rain Wire					24 (7/32) AWG Tinned Copper		
2) Ca	ble Assembly					7 Components Cabled		
a) Twists						2.4 Twists/foot (min.)		
b) Orientation						Components to be arranged from INSIDE LAYER-to- OUTSIDE LAYER		
3) Sh	ield					Alum/Mylar Tape, 25% Overlap (min.)		
a) Fo	il Direction					Foil Facing Out		
b) Dr	ain Wire					24 (7/32) AWG Tinned Copper		
c) Braid						Tinned Copper,65% Coverage (min.)		
4) Jacket						0.048" Wall, Nom. PVC	0.464 (0.483 max.	
a) Color(s)					SLATE			
b) Print						ALPHA WIRE-* P/N 6321 7PR 24 AWG SHIELDED 75C (UL) TYPE CM OR AWM 2493 LLXXXXXX CSA TYPE CMH FT1 CE ROHS * = Factory Code Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.		

Applicable Specifications

1) UL	AWM/STYLE 2493	60°C	
	СМ	75°C	
	VW-1		
2) CSA International	СМН	60°C	
	FT1		
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 detail.

Properties

Physical & Mechanical Properties			
1) Temperature Range	-20 to 75℃		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	84 lbs. (max.)		
Electrical Properties	For Engineering purposes only		
1) Voltage Rating	300 V _{RMS}		
2) Characteristic Impedance	100 ω		
3) Mutual Capacitance	12.5 pF/ft @1 kHz, Nominal		
4) Ground Capacitance	22 pF/ft @1 kHz, Nominal		
5) Conductor DCR	26 ω/1000ft @20°C, Nominal		
6) Ind. Shield DC Resistance	19.8 ω/1000ft @20°C, Nominal		
7) OA Shield DCR	2.6 ω/1000ft @20°C, Nominal		

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous Length
b) 500 FT	18 x 14.25 x 8 Continuous Length
c) 100 FT	12 x 5.94 x 5 Continuous Length
	Spool dimensions may vary slightly.

www.alphawire.com

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Alpha Wire □□□□6321

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

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ППППППП Dave Watson 2025/3/31