

Customer Specification

PART NO. 3500/18C

Construction

						Diameter ("in")		
1) Component 1						18 x 1 PAIR		
a) Conductor						28 (7/36) AWG Tinned Copper		0.015
b) Insulation						0.0145" Wall, Nom. Polypropylene, Foam		0.044
(1) Color Code						Alpha Wire Color Code M		
Pair	Color	Pair	Color	Pair	Color			
1	BLUE/WHITE - WHITE/BLUE	7	ORANGE/RED - RED/ORANGE	13	GREEN/BLACK - BLACK/GREEN			
2	ORANGE/WHITE - WHITE/ORANGE	8	GREEN/RED - RED/GREEN	14	BROWN/BLACK - BLACK/BROWN			
3	GREEN/WHITE - WHITE/GREEN	9	BROWN/RED - RED/BROWN	15	SLATE/BLACK - BLACK/SLATE			
4	BROWN/WHITE - WHITE/BROWN	10	SLATE/RED - RED/SLATE	16	BLUE/YELLOW - YELLOW/BLUE			
5	SLATE/WHITE - WHITE/SLATE	11	BLUE/BLACK - BLACK/BLUE	17	ORANGE/YELLOW - YELLOW/ORANGE			
6	BLUE/RED - RED/BLUE	12	ORANGE/BLACK - BLACK/ORANGE	18	GREEN/YELLOW - YELLOW/GREEN			
c) Pair						2/Cond Cabled Together		
(1) Twists						9.6 Twists/foot (min.)		
2) Cable Assembly						18 Components Cabled		
a) Twists						2.3 Twists/foot (min.)		
b) Orientation						Components to be arranged from INSIDE LAYER-to-OUTSIDE LAYER		
3) Shield						Alum/Mylar Tape, 25% Overlap (min.)		
a) Foil Direction						Foil Facing Out		
b) Drain Wire						28 (7/36) AWG Tinned Copper		
c) Braid						Tinned Copper, 65% Coverage (min.)		
4) Jacket						0.035" Wall, Nom. PVC		0.467 (0.492 max.)
a) Color(s)						SLATE		
b) Print						ALPHA WIRE-* P/N 3500/18C 18PR 28 AWG SHIELDED 75C (UL) C(UL) TYPE CMG OR AWM 2919 LOW VOLTAGE COMPUTER CABLE FT4 CE ROHS * = Factory Code <i>Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.</i>		

Applicable Specifications

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1) UL	AWM/STYLE 2919	80°C / 30 V _{RMS}
	CMG	75°C
	VW-1	
2) CSA International	CMG	75°C
	FT4	
3) CE	EU Low Voltage Directive 2014/35/EU	

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 detail.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	58 lbs. (max.)
Electrical Properties	
<i>For Engineering purposes only</i>	
1) Voltage Rating	300 V _{RMS}
2) Characteristic Impedance	120 ω
3) Mutual Capacitance	11 pF/ft @1 kHz, Nominal
4) Ground Capacitance	20 pF/ft @1 kHz, Nominal
5) Velocity of Propagation	78 %
6) Conductor DCR	65 ω /1000ft @20°C, Nominal
7) OA Shield DCR	2.6 ω /1000ft @20°C, Nominal

Other

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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
	<i>Spool dimensions may vary slightly.</i>

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