

Customer Specification

PART NO. 6398

Construction

						Diameter ("in")	
1) Component 1						18 x 1 PAIR	
a) Conductor						28 (7/36) AWG Tinned Copper	0.015
b) Insulation						0.010" Wall, Nom. Polyethylene (PE)	0.035
(1) Color Code						Alpha Wire Color Code K	
Pair	Color	Pair	Color	Pair	Color		
1	BLACK-RED	7	BLACK-ORANGE	13	RED-ORANGE		
2	BLACK-WHITE	8	RED-WHITE	14	GREEN-WHITE		
3	BLACK-GREEN	9	RED-GREEN	15	GREEN-BLUE		
4	BLACK-BLUE	10	RED-BLUE	16	GREEN-YELLOW		
5	BLACK-YELLOW	11	RED-YELLOW	17	GREEN-BROWN		
6	BLACK-BROWN	12	RED-BROWN	18	GREEN-ORANGE		
c) Pair						2/Cond Cabled Together	
(1) Twists						12.0 Twists/foot (min.)	
2) Cable Assembly						18 Components Cabled	
a) Twists						2.8 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, 90% Coverage (min.)	
4) Jacket						0.035" Wall, Nom. PVC	0.383 (0.407 max.)
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N 6398 18PR 28 AWG SHIELDED 75C (UL) TYPE CL2 OR AWM 2960 C(UL) TYPE CM 60C FT1 CE ROHS * = Factory Code <i>Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.</i>	

Applicable Specifications

1) UL	AWM/STYLE 2960	60°C / 30 V _{RMS}
	CL2	75°C
	VW-1	
2) CSA International	C(UL) TYPE CM	60°C
	FT1	
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 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	60 lbs. (max.)
Electrical Properties	
<i>For Engineering purposes only</i>	
1) Voltage Rating	300 V _{RMS}
2) Characteristic Impedance	100 ω
3) Mutual Capacitance	15.5 pF/ft @1 kHz, Nominal
4) Ground Capacitance	27.5 pF/ft @1 kHz, Nominal
5) Conductor DCR	66 ω /1000ft @20°C, Nominal
6) OA Shield DCR	2.3 ω /1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	18 x 14.25 x 8 Continuous Length
b) 500 FT	18 x 9 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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