

Customer Specification

PART NO. 6398

Construction

		Diameters (In)			
1) Component 1		18 X 1 PAIR			
a) Conductor		28 (7/36) AWG TC		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)			
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing Out			
b) Drain Wire		28 (7/36) AWG TC			
c) Braid		TC,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 LL701765 CSA TYPE CMH 60C FT1 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	CMH	60°C
	FT1	

Environmental

1) EU Directive 2002/95/EC(RoHS):	
	All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.
2) REACH Regulation (EC 1907/2006):	
	This product does not contain any of the substances listed on the 13 January 2010 European Union's REACH Substance of Very High Concern (SVHC) candidate list in excess of 0.1% mass of the item.
3) California Proposition 65:	
	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	60 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Characteristic Impedance	100
3) Mutual Capacitance	15.5 pf/ft @1 kHz, Nominal
4) Ground Capacitance	27.5 pf/ft @1 kHz, Nominal
5) Conductor DCR	66 /1000ft @20°C, Nominal
6) OA Shield DCR	2.3 /1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	20 x 11 x 8 Continuous length
b) 500 FT	16 x 11 x 8 Continuous length
c) 100 FT	12 x 10 x 5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>
Notes:	
a) CSA File Number may also be LL49185	

www.alphawire.com

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:6398

6398 , RoHS-Compliant Commencing With11/1/2004Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE) Including Deca-BDE	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

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