Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification

PART NO. 9316

Construction

				Diameters (In)	
1) Component 1		1 X 1 COAX			
a) Conductor		25 (7/.0067) AWG SCW		0.020	
b) Insulation		0.020" Wall, Nom. PTFE		0.060	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	CLEAR				
2) Shield		SPC BRAID Shield,94% Coverage, Min.			
3) Jacket		0.010" Wall, Nom.,FEP		0.098 (0.102 Max.)	
a) Color(s)		NATURAL TAN			
b) Print		ALPHA WIRE-* P/N 9316 MIL-DTL-17 M17/113-RG 316 12814 E346462 1C 26 AWG SHIELDED 200C (UL) C(UL) CMG FT4 OR AWM 1971 150C 125V CE ROHS * = Factory Code *[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]*			

Applicable Specifications

1) UL	AWM/STYLE 1971	150°C / 125 V_{RMS}
	CMG	200°C
2) CSA International	C(UL) TYPE CMG	200°C
	FT4	
3) Military	MIL-C-17/113 RG 316/U	200°C / 900 V_{RMS}
4) CE:	EU Low Voltage Directive 2006/95/EC	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.
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. For up-to-date information, please see Alpha's REACH SVHC Declaration.
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	-55 to 200°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	2.11 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	900 V_{RMS}
2) Characteristic Impedance	50 Ω +/- 2
3) Ground Capacitance	29.3 pf/ft @1 kHz, Nominal
4) Velocity of Propagation	70 %
5) Conductor DCR	85.8 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	8.5 Ω/1000ft @20°C, Nominal
7) Voltage Withstanding	2 kV, Minimum
8) Corona Extinction	1.2 kV, Minimum
9) SRL	30 db @ 50 MHz
	30 @ 100 MHz
	23 @ 400 MHz
	21 @ 1 GHz
	17 db @ 3 GHz
10) Attenuation, Max dB/100ft	7.5 @ 50 MHz
	11 @ 100 MHz
	21 @ 400 MHz
	38 @ 1 GHz
	58 @ 3 GHz

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	9 x 4.5 x 3.5 Max. 3 separate pieces; Min length/piece 100 FT.
b) 500 FT	6.5 x 4 x 2.5 Max. 2 separate pieces; Min length/piece 100 FT.
c) 100 FT	3.5 x 3 x 1.125 Continuous length
d) Bulk(Made-to-order)	(Max. 3 pieces per 1000 FT./Min length 100 FT.)
	[Spool dimensions may vary slightly]

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