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# Customer Specification

## PART NO. 9178B

### ProductConstruction

				Diameters (In)	
1) Component 1		1 X 1 COAX			
a) Conductor		30 (7/38) AWG SCW		0.012	
b) Insulation		0.011" Wall, Nom. PTFE		0.034	
(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		0.071+/- 0.004	
a) Color(s)		NATURAL TAN			

### ProductIndustryApprovals

1) Military	MIL-C-17/RG 178B/U	200°C / 750 V <sub>RMS</sub>
2) CE:	EU Low Voltage Directive 2006/95/EC	

### ProductEnvironmental

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.

### ProductProperties

Physical & Mechanical Properties	
1) Temperature Range	-55 to 200°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	2.15 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	750 V <sub>RMS</sub>
2) Characteristic Impedance	50 Ω +/- 2
3) Ground Capacitance	29.3 pf/ft @1 kHz, Nominal
4) Velocity of Propagation	70 %
5) Conductor DCR	241 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	14.6 Ω/1000ft @20°C, Nominal
7) Voltage Withstanding	2 kV, Minimum
8) Corona Extinction	1 kV, Minimum
9) Attenuation, Max dB/100ft	29 @ 400 MHz

## ProductOther

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	6.5 x 4 x 2.5 Max. 3 separate pieces; Min length/piece 100 FT.
b) 500 FT	6.5 x 2 x 1.9 Max. 2 separate pieces; Min length/piece 100 FT.
c) 100 FT	2.75 x 2 x 1.125 Continuous length
d) Bulk(Made-to-order)	(Max. 3 pieces per 1000 FT./Min length 100 FT.)
	<i>[Spool dimensions may vary slightly]</i>

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