



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

# Customer Specification

## PART NO. 79111

### Construction

		Diameters (In)					
1) Component 1	4 X 1 COND						
a) Conductor	18 (16/30) AWG TC	0.047					
b) Insulation	0.010" Wall, Nom. Modified Polyphenylene Ether	0.067					
(1) Color Code	Alpha Wire Color Code D						
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	3	WHITE				
2	RED	4	GREEN				
2) Cable Assembly	4 Components Cabled						
a) Twists:	6.9 Twists/foot (min)						
b) Core Wrap	Nonwoven Polyester Tape, 25% Overlap, Min.						
3) Shield	TC BRAID Shield, 85% Coverage, Min.						
4) Jacket	0.035" Wall, Nom., MPPE			0.264+/- 0.011			
a) Color(s)	SLATE						
b) Jacket Separator	Nonwoven Polyester Tape, 25% Overlap, Min.						
c) Print	ALPHA WIRE-* P/N 79111 4C 18 AWG ECOFLEX(TM) RU AWM 21819 105C 600V OR 21492 80C 300V VW-1 CLASS K C(RU) AWM I/II A/B FT1 600V 105C CE ROHS (SEQ FOOTAGE) * = Factory Code						

### Applicable Specifications

1) UL	AWM/STYLE 21819	105°C / 600 V <sub>RMS</sub>
	AWM/STYLE 21492	80°C / 300 V <sub>RMS</sub>
2) CSA International	C(RU) AWM I/II A/B FT1	105°C / 600 V <sub>RMS</sub>
3) CE:	EU Low Voltage Directive 2006/95/EC	

### 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 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	-40 to 105°C(static), -5 to 105°C (dynamic)
2) Bend Radius	6X Cable Diameter(static), 8X Cable Diameter(dynamic)
3) Pull Tension	55 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	600 V <sub>RMS</sub>
2) Capacitance	34 pf/ft @ 1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	61 pf/ft @ 1 kHz, Nominal
4) Inductance	0.16 $\mu$ H/ft, Nominal
5) Conductor DCR	7.2 /1000ft @20°C, Nominal
6) OA Shield DCR	4.7 /1000ft @20°C, Nominal

## Other

<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 12 x 3.5 Continuous length
b) 100 FT	10 x 4 x 3.5 Continuous length
<i>[Spool dimensions may vary slightly]</i>	

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