



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

# Customer Specification

## PART NO. 79108

### Construction

		Diameters (In)							
1) Component 1	18 X 1 COND								
a) Conductor	20 (10/30) AWG TC	0.036							
b) Insulation	0.0095" Wall, Nom. Modified Polyphenylene Ether	0.055							
(1) Color Code	Alpha Wire Color Code D								
Cond	Color	Cond	Color	Cond	Color				
1	BLACK	7	BROWN	13	RED/GREEN				
2	RED	8	YELLOW	14	RED/YELLOW				
3	WHITE	9	VIOLET	15	RED/BLACK				
4	GREEN	10	SLATE	16	WHITE/BLACK				
5	ORANGE	11	PINK	17	WHITE/RED				
6	BLUE	12	TAN	18	WHITE/GREEN				
2) Cable Assembly	18 Components Cabled								
a) Twists:	3.7 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	0.376+/- 0.018							
a) Color(s)	SLATE								
b) Jacket Separator	Nonwoven Polyester Tape, 25% Overlap, Min.								
c) Print	ALPHA WIRE-* P/N 79108 18C 20 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	148 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	600 V <sub>RMS</sub>
2) Capacitance	29 pf/ft @ 1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	52 pf/ft @ 1 kHz, Nominal
4) Inductance	0.17 $\mu$ H/ft, Nominal
5) Conductor DCR	11.7 /1000ft @20°C, Nominal
6) OA Shield DCR	4 /1000ft @20°C, Nominal

## Other

<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) 1000 FT	20 x 11 x 8 Continuous length
b) 100 FT	12 x 10 x 5 Continuous length
<i>[Spool dimensions may vary slightly]</i>	

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