

□□□□□

 □□□ **1746C**

## Construction

						Diameter ("in")	
1) Component 1						2 x 1 COND	
a) Conductor						18 (16/30) AWG Tinned Copper	0.047
b) Insulation						0.016" Wall, Nom. PVC	0.079
(1) Color Code						Alpha Wire Color Code D	
Cond	Color	Cond	Color	Cond	Color		
1	BLACK	2	RED				
2) Cable Assembly						2 Components Cabled	
a) Twists:						5.3 Twists/foot (min.)	
b) Orientation:						Components to be arranged from INSIDE LAYER-to-OUTSIDE LAYER	
c) Core Wrap						Clear Mylar Tape, 25% Overlap (min.)	
3) Shield						Bare Copper BRAID Shield, 75% Coverage, Nom.	
4) Jacket						0.020" Wall, Nom. PVC	0.223 (0.233 max.)
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N 1746C 2C 18 AWG SHIELDED 75C (UL) TYPE CM OR AWM 2095 OR C(UL) TYPE CMG FT4 CE 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 2095	80°C / 300 V <sub>RMS</sub>
	CM	75°C
	VW-1	
2) CSA International	CMG	60°C
	FT4	
3) CE	EU Low Voltage Directive 2014/35/EU	

## Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3)	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item.
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.
3) California Proposition 65	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more detail.

## Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	28 lbs. (max.)
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Capacitance	50 pF/ft @1 kHz, Nominal Conductor-to-Conductor
3) Ground Capacitance	90 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	42 $\omega$
5) Inductance	0.18 $\mu$ H/ft, Nominal
6) Conductor DCR	7 $\omega$ /1000ft @20°C, Nominal
7) OA Shield DCR	6.1 $\omega$ /1000ft @20°C, Nominal

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 10.5 x 5 Continuous Length
b) 500 FT	12 x 5.94 x 5 Continuous Length
c) 100 FT	6.5 x 4 x 2.5 Continuous Length
	<i>Spool dimensions may vary slightly.</i>





□□□□□□□□ Dave Watson

2026/3/23