

## ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

**Part Number: 1749C**  
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**Issue: 8**  
**Issue Date: 1/17/2013**  
**Effective Date: 2/1/2013**

### A. Construction

		<u>Diameters (In)</u>
1) Component 1	3 X 1 COND	
a) Conductor	16 (19/.0117) AWG TC	0.059
b) Insulation	0.016" Wall, Nom. PVC	0.091
(1) Color Code	Alpha Wire Color Code D	

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	RED	3	WHITE

2) Cable Assembly	3 Components Cabled	
a) Twists:	4.4 Twists/foot (min)	
b) Core Wrap	Clear Mylar Tape, 25% Overlap, Min.	
3) Shield	BC BRAID Shield, 75% Coverage, Min.	
4) Jacket	0.020" Wall, Nom., PVC	0.261 (0.272 Max.)
a) Color(s)	SLATE	
b) Print	ALPHA WIRE-* P/N 1749C 3C 16 AWG SHIELDED 75C (UL) TYPE CM OR AWM 2095 OR C(UL) 60C TYPE CMG FT4 CE ROHS	

\* = Factory Code

[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

### B. Applicable Specifications

1) UL	AWM/STYLE 2095	80°C / 300 V <sub>RMS</sub>
	CM	75°C
	VW-1	
2) CSA International	C(UL) TYPE CMG	60°C
	FT4	
3) CE:	EU Low Voltage Directive 2006/95/EC	

### C. Environmental Compliance

- 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.

### D. Physical & Mechanical Properties

1) Temperature Range	-20 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	66 Lbs, Maximum

### E. Electrical Properties

(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Capacitance	57 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	103 pf/ft @1 kHz, Nominal
4) Inductance	0.17 µH/ft, Nominal
5) Conductor DCR	4.4 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	4.1 Ω/1000ft @20°C, Nominal

### F. Other

1) Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 12 x 3.5 Continuous length
b) 500 FT	12 x 6 x 3.5 Continuous length

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