

Customer Specification

PART NO. 1746C

Construction

				Diameters (In)	
1) Component 1		2 X 1 COND			
a) Conductor		18 (16/30) AWG TC			
b) Insulation		0.016" Wall, Nom. PVC		0.079	
(1) Color Code		Alpha Wire Company 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) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.			
3) Shield		BC BRAID Shield, 75% Coverage, Min.			
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 --- LLXXXXXX CSA TYPE CMG FT4 ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

Applicable Specifications

1) UL	AWM/STYLE 2095	80°C / 300 V _{RMS}
	CM	75°C
	VW-1	
2) CSA International	CMG	60°C
	FT4	

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) 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	-20 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	28 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Capacitance	57 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	103 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	40 Ω
5) Inductance	0.18 μH/ft, Nominal
6) Conductor DCR	7.1 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	6.2 Ω/1000ft @20°C, Nominal

Other

1) Packaging	
a) 1000 FT	
b) 500 FT	
c) 100 FT	

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:1746C

1746C , RoHS-Compliant Commencing With8/1/2005Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE) Including Deca-BDE	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

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