

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 1746C
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Issue: 6
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A. Construction

Diameters

- | | | | |
|----|----------------|-------------------------|-------|
| 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 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) | GRAY | |
| | b) Print | ALPHA WIRE-* P/N 1746C 2/C 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.]

B. Industry Approvals

- | | | | |
|----|--------------------------------|--|---------------------|
| 1) | UL | AWM/STYLE2095
CM
VW-1 | 80°C / 300V
75°C |
| 2) | CSA International | CMG
FT4 | 60°C |
| 3) | 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. | |
| 4) | California Proposition 65: | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. | |

C. Physical & Mechanical Properties

- | | | |
|----|-------------------|--------------------|
| 1) | Temperature Range | -20 to 80°C |
| 2) | Bend Radius | 10X Cable Diameter |
| 3) | Pull Tension | 28 Lbs, Maximum |

D. 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 |

E. Other

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

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