

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 2421C
Page 1 of 2 Pages

Issue: 5
Issue Date: 5/20/2005
Effective Date: 8/1/2005

A. Construction

Diameters

- | | | |
|----------------|------------------------------------|-------|
| 1) Component 1 | 2 X 1 COND | |
| a) Conductor | 18 (16/30) AWG TC | |
| b) Insulation | 0.016" Wall, Nom. Polyethylene(PE) | 0.079 |
| (1) Color(s) | | |

| Cond | Color | Cond | Color |
|------|-------|------|---------|
| 1 | BLACK | 2 | NATURAL |

- | | | |
|-------------------|---|--------------------|
| 2) Cable Assembly | 2 Components Cabled | |
| a) Twists: | 5.3 Twists/foot (min) | |
| 3) Shield: | Alum/Mylar Tape, 25% Overlap, Min. | |
| a) Foil Direction | Foil Facing Out | |
| b) Drain Wire | 20 (10/30) AWG TC | |
| 4) Jacket | 0.020" Wall, Nom.,PVC | 0.202 (0.212 Max.) |
| a) Color(s) | GRAY | |
| b) Print | ALPHA WIRE-* P/N 2421C 2/C 18 AWG SHIELDED 75C (UL) TYPE CM OR AWM 2092 ---- 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/STYLE2092 | 60°C / 300V |
| | CM | 75°C |
| | VW-1 | |
| 2) CSA International | CMG | 60°C |
| | FT4 | |
| 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 75°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 33 Lbs, Maximum |

D. Electrical Properties

(For Engineering purposes only)

- | | |
|-----------------------------|---|
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 27 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 49 pf/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 58 Ω |
| 5) Inductance | 0.18 μH/ft, Nominal |
| 6) Conductor DCR | 7.1 Ω/1000ft @20°C, Nominal |
| 7) OA Shield DCR | 9 Ω/1000ft @20°C, Nominal |

E. Other

- | | |
|---------------|--|
| 1) Packaging | |
| a) 1000 FT | |
| b) BOX 1000FT | |

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- c) BOX 500FT
- d) 500 FT
- e) 328 FT
- f) 100 FT

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