

**ALPHA WIRE COMPANY**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 3465C**  
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**Issue: 6**  
**Issue Date: 5/20/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters (In)**

- |                |                                   |       |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 5 X 1 COND                        |       |
| a) Conductor   | 28 (7/36) AWG TC                  |       |
| b) Insulation  | 0.010" Wall, Nom. PVC, Semi Rigid | 0.035 |
| (1) Color Code | Alpha Wire Company Color Code D   |       |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	WHITE	5	ORANGE
2	RED	4	GREEN		

- |                   |                                                                                                                                      |                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 2) Cable Assembly | 5 Components Cabled                                                                                                                  |                    |
| a) Twists:        | 9.6 Twists/foot (min)                                                                                                                |                    |
| 3) Shield:        | Alum/Mylar Tape, 25% Overlap, Min.                                                                                                   |                    |
| a) Foil Direction | Foil Facing Out                                                                                                                      |                    |
| b) Drain Wire     | 28 (7/36) AWG TC                                                                                                                     |                    |
| c) Braid          | TC, 65% Coverage, Min.                                                                                                               |                    |
| 4) Jacket         | 0.035" Wall, Nom., PVC                                                                                                               | 0.191 (0.202 Max.) |
| a) Color(s)       | SLATE                                                                                                                                |                    |
| b) Print          | ALPHA WIRE-* P/N 3465C 5C 28 AWG<br>SHIELDED 75C (UL) TYPE CL2 OR AWM 2464 ---<br>LLXXXXXX CSA TYPE CMG FT4 ROHS<br>* = Factory Code |                    |

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

**B. Industry Approvals**

- |                                   |                                                                                                                                                                                                                                                                              |                                     |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 1) UL                             | AWM/STYLE 2464<br>CL2<br>VW-1                                                                                                                                                                                                                                                | 80°C / 300 V <sub>RMS</sub><br>75°C |
| 2) CSA International              | CMG<br>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      | 10.2 Lbs, Maximum  |

**D. Electrical Properties**

- |                       |                                                 |
|-----------------------|-------------------------------------------------|
| 1) Voltage Rating     | 300 V <sub>RMS</sub>                            |
| 2) Capacitance        | 25 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 45 pf/ft @1 kHz, Nominal                        |
| 4) Inductance         | 0.22 µH/ft, Nominal                             |
| 5) Conductor DCR      | 66 Ω/1000ft @20°C, Nominal                      |
| 6) OA Shield DCR      | 8.5 Ω/1000ft @20°C, Nominal                     |

**E. Other**

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

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