

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

**Part Number: M39114**  
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**Issue: 4**  
**Issue Date: 2/16/2009**  
**Effective Date: 2/16/2009**

**A. Construction**

**Diameters (In)**

- |                |                       |       |
|----------------|-----------------------|-------|
| 1) Component 1 | 3 X 1 COND            |       |
| a) Conductor   | 22 (7/30) AWG TC      |       |
| b) Insulation  | 0.016" Wall, Nom. PVC | 0.062 |
| (1) Color(s)   |                       |       |

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

- |                   |   |                    |
|-------------------|---|--------------------|
| 2) Cable Assembly | 3 Components Cabled   |                    |
| a) Twists:        | 6.0 Twists/foot (min)   |                    |
| 3) Shield:        | Alum/Mylar Tape, 25% Overlap, Min.  |                    |
| a) Foil Direction | Foil Facing In  |                    |
| b) Drain Wire     | 24 (7/32) AWG TC  |                    |
| 4) Jacket         | 0.038" Wall, Nom., PVC  | 0.214 (0.224 Max.) |
| a) Color(s)       | SLATE   |                    |
| b) Print          | ALPHA WIRE-* P/N M39114 3C 22 AWG<br>SHIELDED EXXXXX (UL) TYPE PLTC/ITC 105C SUN RES<br>OR CMG 105C OR C(UL) CMG FT4 ROHS<br>* = Factory Code |                    |

**B. Industry Approvals**

- |                                   |  |       |
|-----------------------------------|--|-------|
| 1) UL                             | CM   | 105°C |
|                                   | PLTC   | 105°C |
|                                   | ITC  | 105°C |
|                                   | SUN RES  |       |
| 2) CSA International              | C(UL) TYPE CMG   | 105°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 105°C       |
| 2) Bend Radius         | 10X Cable Diameter |
| 3) Pull Tension        | 20 Lbs, Maximum    |
| 4) Sunlight Resistance | Yes                |

**D. Electrical Properties**

(For Engineering purposes only)

- |                       |   |
|-----------------------|---|
| 1) Voltage Rating     | 300 V <sub>RMS</sub>                            |
| 2) Capacitance        | 39 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 70 pf/ft @1 kHz, Nominal                        |
| 4) Inductance         | 0.2 µH/ft, Nominal                              |
| 5) Conductor DCR      | 16.3 Ω/1000ft @20°C, Nominal                    |
| 6) OA Shield DCR      | 15.9 Ω/1000ft @20°C, Nominal                    |

**E. Other**

- |                        |  |
|------------------------|--|
| 1) Packaging           |  |
| a) 1000 FT             |  |
| b) 500 FT              |  |
| c) 100 FT              |  |
| d) Bulk(Made-to-order) |  |

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