

**ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 850100
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Issue: 2
Issue Date: 1/21/2009
Effective Date: 1/21/2009

A. Construction

Diameters (In)

- | | | |
|----------------|-------------------------------|-------|
| 1) Component 1 | 3 X 1 COND | |
| a) Conductor | 16 (19/.0117) AWG TC | |
| b) Insulation | 0.010" Wall, Nom. Teflon(FEP) | 0.079 |
| (1) Color(s) | | |

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

- | | | |
|-------------------|--|--------------------|
| 2) Cable Assembly | 3 Components Cabled | |
| a) Twists: | 4.8 Twists/foot (min) | |
| b) Core Wrap | Teflon(skived) Tape, 25% Overlap, Min. | |
| 3) Shield: | Alum/Mylar Tape, 25% Overlap, Min. | |
| a) Foil Direction | Foil Facing In | |
| b) Drain Wire | 16 (19/.0117) AWG TC | |
| 4) Jacket | 0.027" Wall, Nom., Teflon(FEP) | 0.236 (0.247 Max.) |
| a) Color(s) | NATURAL TAN | |
| b) Ripcord | Para-Aramid fiber(Kevlar, Twaron or equal) | |
| c) Marker Tape | XTRAGUARD 5 16 AWG SHIELDED 150C (UL) TYPE
CMP OR AWM 20229 -- LLXXXXXX CSA TYPE CMP FT6
CE ROHS | |

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

B. Industry Approvals

- | | | |
|-----------------------------------|--|--------------|
| 1) UL | CMP | 150°C |
| | AWM/STYLE 20229 | 150°C / 300V |
| 2) CSA International | CMP | 150°C |
| | FT6 | |
| 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. | |
| 4) California Proposition 65: | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. | |
| 5) CE: | LVD 73/23/EEC Amendment 93/68/EEC | |

C. Physical & Mechanical Properties

- | | |
|----------------------|--------------------|
| 1) Temperature Range | -80 to 200°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 82 Lbs, Maximum |

D. Electrical Properties

(For Engineering purposes only)

- | | |
|-----------------------|---|
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 30 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 54 pf/ft @1 kHz, Nominal |
| 4) Inductance | 0.15 µH/ft, Nominal |
| 5) Conductor DCR | 4.3 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 3.4 Ω/1000ft @20°C, Nominal |

E. Other

- | | |
|------------------------|--|
| 1) Packaging | |
| a) Bulk(Made-to-order) | |

This Design is custom, Made-To-Order & once accepted, the order is NON-CANCELLABLE & NON-RETURNABLE.

Accepted By: _____

Date: _____

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