

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 86708CY
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Issue: 10
Issue Date: 7/7/2009
Effective Date: 7/21/2009

A. Construction

Diameters (In)

- | | | | |
|----|----------------|-----------------------------------|-------|
| 1) | Component 1 | 8 X 1 PAIR | |
| | a) Conductor | 22 (19/34) AWG TC | |
| | b) Insulation | 0.010" Wall, Nom. PVC, Semi Rigid | 0.052 |
| | (1) Color Code | Alpha Wire Company Color Code A | |

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	4	BLACK-BLUE	7	BLACK-ORANGE
2	BLACK-WHITE	5	BLACK-BROWN	8	RED-GREEN
3	BLACK-GREEN	6	BLACK-YELLOW		

- | | | | |
|----|---------------------|--|----------------|
| c) | Pair | 2/Cond Cabled Together | |
| | (1) Twists: | 9.6 Twists/foot (min) | |
| 2) | Cable Assembly | 8 Components Cabled | |
| | a) Twists: | 3.2 Twists/foot (min) | |
| | b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) | Shield: | Flex Alum/Mylar Tape, 25% Overlap, Min. | |
| | a) Foil Direction | Foil Facing Out | |
| | b) Drain Wire | 26 (7/34) AWG TC | |
| | c) Braid | TC, 85% Coverage, Min. | |
| 4) | Jacket | 0.045" Wall, Nom., PVC | 0.443+/- 0.020 |
| | a) Color(s) | SLATE | |
| | b) Jacket Separator | Tissue Tape, 25% Overlap, Min. | |
| | c) Print | ALPHA WIRE-* P/N 86708CY 8PR 22 AWG
XTRAGUARD CONTINUOUS FLEX DATA CABLE
(UL) 105C TYPE CM --- C(UL) CMG OR AWM 2661
105C 300V --- LLXXXXXX CSA AWM I/II A/B FT4 105C
300V CE ROHS <SEQ FOOTAGE>
* = Factory Code | |

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

B. Industry Approvals

- | | | | |
|----|-------------------|-----------------------------------|------------------------------|
| 1) | UL | | |
| | a) Component 1 | AWM/STYLE 10002 | 105°C / 300 V _{RMS} |
| | b) Overall | AWM/STYLE 2661 | 105°C / 300 V _{RMS} |
| | | CM | 105°C |
| 2) | CSA International | AWM I/II A/B | 105°C / 300 V _{RMS} |
| | | C(UL) TYPE CMG | 105°C |
| | | FT4 | |
| 3) | CE: | LVD 73/23/EEC Amendment 93/68/EEC | |

C. Environmental Approvals

- 1) 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.
- 2) California Proposition 65: The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

D. Physical & Mechanical Properties

- 1) Temperature Range -10 to 105°C(static), +5 to 105°C (dynamic)
- 2) Bend Radius 10X Cable Diameter(static), 15X Cable Diameter(dynamic)
- 3) Pull Tension 106 Lbs, Maximum
- 4) Sunlight Resistance Yes

E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating 300 V_{RMS}
 - 2) Mutual Capacitance 26 pf/ft @1 kHz, Nominal

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|-----------------------------|--------------------------------------|
| 3) Ground Capacitance | 47 pf/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 73 Ω |
| 5) Inductance | 0.17 μ H/ft, Nominal |
| 6) Conductor DCR | 15.6 Ω /1000ft @20°C, Nominal |
| 7) OA Shield DCR | 2.18 Ω /1000ft @20°C, Nominal |

F. Other

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

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