

ALPHA WIRE COMPANY

CUSTOMER PRODUCT SPECIFICATION

Part Number: 5299C
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Issue: 10
Issue Date: 1/29/2008
Effective Date: 3/1/2008

A. Construction

Diameters (In)

- | | | |
|----------------|---------------------------------|-------|
| 1) Component 1 | 9 X 1 PAIR | |
| a) Conductor | 20 (7/28) AWG TC | |
| b) Insulation | 0.016" Wall, Nom. PVC | 0.070 |
| (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	9	RED-WHITE

- | | | |
|-------------------|---|--------------------|
| c) Pair | 2/Cond Cabled Together | |
| (1) Twists: | 6.0 Twists/foot (min) | |
| 2) Cable Assembly | 9 Components Cabled | |
| a) Twists: | 2.4 Twists/foot (min) | |
| b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) Shield: | A/P/A Tape, 25% Overlap, Min. | |
| a) Drain Wire | 20 (7/28) AWG TC | |
| b) Braid | TC, 70% Coverage, Min. | |
| 4) Jacket | 0.032" Wall, Nom., PVC | 0.515 (0.536 Max.) |
| a) Color(s) | Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White | |
| b) Ripcord | 1 End 810 Denier Nylon | |
| c) Print | ALPHA WIRE-* P/N 5299C 9PR 20 AWG | |
| | XTRAGUARD 1 XTREME PERFORMANCE FOR XTREME | |
| | ENVIRONMENTS - SHIELDED 105C (UL) TYPE CM OR AWM | |
| | 2464 VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4 | |
| | 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 1569 | 105°C / 300 VRMS |
| b) Overall | AWM/STYLE 2464 | 80°C / 300 VRMS |
| | CM | 105°C |
| | VW-1 | |
| 2) CSA International | 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. |
| 5) CE: | LVD 73/23/EEC Amendment 93/68/EEC |

C. Physical & Mechanical Properties

- | | |
|------------------------|--------------------|
| 1) Temperature Range | -20 to 105°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 175 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |

D. Electrical Properties

- | | |
|-----------------------|---------------------------------|
| | (For Engineering purposes only) |
| 1) Voltage Rating | 300 VRMS |
| 2) Mutual Capacitance | 32 pf/ft @1 kHz, Nominal |

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|-----------------------------|--------------------------------------|
| 3) Ground Capacitance | 58 pf/ft @1 kHz, Nominal |
| 4) Characteristic Impedance | 70 Ω |
| 5) Inductance | 0.19 μ H/ft, Nominal |
| 6) Conductor DCR | 10.4 Ω /1000ft @20°C, Nominal |
| 7) OA Shield DCR | 1.66 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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