

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6396
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Issue: 3
Issue Date: 5/26/2005
Effective Date: 8/1/2005

A. Construction

Diameters

- | | | |
|----------------|------------------------------------|-------|
| 1) Component 1 | 12 X 1 PAIR | |
| a) Conductor | 28 (7/36) AWG TC | |
| b) Insulation | 0.010" Wall, Nom. Polyethylene(PE) | 0.035 |
| (1) Color Code | Alpha Wire Color Code K | |

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	5	BLACK-YELLOW	9	RED-GREEN
2	BLACK-WHITE	6	BLACK-BROWN	10	RED-BLUE
3	BLACK-GREEN	7	BLACK-ORANGE	11	RED-YELLOW
4	BLACK-BLUE	8	RED-WHITE	12	RED-BROWN

- | | | |
|-------------------|---|--------------------|
| c) Pair | 2/Cond Cabled Together | |
| (1) Twists: | 12.0 Twists/foot (min) | |
| 2) Cable Assembly | 12 Components Cabled | |
| a) Twists: | 3.4 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,90% Coverage, Min. | |
| 4) Jacket | 0.035" Wall, Nom.,PVC | 0.335 (0.356 Max.) |
| a) Color(s) | GRAY | |
| b) Print | ALPHA WIRE-* P/N 6396 12PR 28 AWG
SHIELDED 75C (UL) TYPE CL2 OR AWM 2960
LLXXXXXX CSA TYPE CMH FT1 ROHS
* = Factory Code | |

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

B. Industry Approvals

- | | | |
|-----------------------------------|--|------------|
| 1) UL | AWM/STYLE2960 | 60°C / 30V |
| | CL2 | 75°C |
| | VW-1 | |
| 2) CSA International | CMH | 60°C |
| | FT1 | |
| 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 75°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 43 Lbs, Maximum |

D. Electrical Properties

(For Engineering purposes only)

- | | |
|-----------------------------|----------------------------|
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Characteristic Impedance | 100 Ω |
| 3) Mutual Capacitance | 15.5 pf/ft @1 kHz, Nominal |
| 4) Ground Capacitance | 27.5 pf/ft @1 kHz, Nominal |
| 5) Conductor DCR | 66 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 2 Ω/1000ft @20°C, Nominal |

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E. Other

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

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