

**ALPHA WIRE COMPANY  
CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 3500/12C**  
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**Issue: 5**  
**Issue Date: 5/20/2005**  
**Effective Date: 8/1/2005**

**A. Construction**

**Diameters (In)**

- 1) Component 1 12 X 1 PAIR
  - a) Conductor 28 (7/36) AWG TC
  - b) Insulation 0.013" Wall, Nom. Polypropylene, Foam 0.041
    - (1) Color Code Alpha Wire Company Color Code M

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

- c) Pair 2/Cond Cabled Together
  - (1) Twists: 12.0 Twists/foot (min)
- 2) Component 2 1 X 1 COND
  - a) Conductor 28 (7/36) AWG TC
  - b) Insulation 0.013" Wall, Nom. Polypropylene, Foam 0.041
    - (1) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	GREEN/BLACK				

- 3) Cable Assembly 13 Components Cabled
  - a) Twists: 3.0 Twists/foot (min)
- 4) Shield: Alum/Mylar Tape, 25% Overlap, Min.
  - a) Foil Direction Foil Facing Out
  - b) Drain Wire 28 (7/36) AWG TC
  - c) Braid TC, 65% Coverage, Min.
- 5) Jacket 0.035" Wall, Nom., PVC 0.381 (0.402 Max.)
  - a) Color(s) SLATE
  - b) Print ALPHA WIRE-\* P/N 3500/12C 12PR/1C 28 AWG  
SHIELDED 75C (UL) TYPE CL2 OR AWM 2919 LOW VOLTAGE  
COMPUTER CABLE --- LLXXXXXX CSA TYPE CMG FT4  
ROHS  
\* = Factory Code

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

**B. Industry Approvals**

- 1) UL AWM/STYLE 2919 80°C / 30 V<sub>RMS</sub>  
CL2 75°C  
VW-1
- 2) CSA International CMG 60°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 80°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 42 Lbs, Maximum

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- D. Electrical Properties** (For Engineering purposes only)
- 1) Voltage Rating 300 VRMS
  - 2) Component 1
    - a) Inductance 0.24  $\mu$ H/ft, Nominal
    - b) Mutual Capacitance 12 pf/ft @1 kHz, Nominal
    - c) Ground Capacitance 20 pf/ft @1 kHz, Nominal
    - d) Conductor DCR 67  $\Omega$ /1000ft @20°C, Nominal
    - e) OA Shield DCR 3.2  $\Omega$ /1000ft @20°C, Nominal
  - 3) Component 2
    - a) Inductance 0.08  $\mu$ H/ft, Nominal
    - b) Ground Capacitance 26 pf/ft @1 kHz, Nominal
    - c) Conductor DCR 67  $\Omega$ /1000ft @20°C, Nominal
- E. Other**
- 1) Packaging
    - a) 1000 FT
    - b) 500 FT
    - c) 100 FT

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