

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6017C
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Issue: 6
Issue Date: 5/26/2005
Effective Date: 8/1/2005

A. Construction

Diameters

- | | | |
|----------------|-------------------------------------|-------|
| 1) Component 1 | 12 X 1 PAIR | |
| a) Conductor | 22 (7/30) AWG TC | |
| b) Insulation | 0.010" Wall, Nom. Polypropylene(PP) | 0.050 |
| (1) Color Code | Alpha Wire Color Code A | |

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

- | | | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| c) Pair | 2/Cond Cabled Together | |
| (1) Twists: | 8.0 Twists/foot (min) | |
| Individually Applied: | | |
| d) Shield: | Foil Free Alum/Mylar Tape, 25% Overlap, Min. | |
| (1) Foil Direction | Foil Facing In | |
| (2) Drain Wire | 22 (7/30) AWG TC | |
| 2) Cable Assembly | 12 Components Cabled | |
| a) Twists: | 2.1 Twists/foot (min) | |
| b) Core Wrap | Clear Mylar Tape, 25% Overlap, Min. | |
| 3) Jacket | 0.048" Wall, Nom.,PVC | 0.483 (0.505 Max.) |
| a) Color(s) | GRAY | |
| b) Print | ALPHA WIRE-* P/N 6017C 12PR 22 AWG SHIELDED 75C (UL) TYPE CM OR AWM 2493 --- 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/STYLE2493 | 60°C |
| | CM | 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 75°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 198 Lbs, Maximum |

D. Electrical Properties

(For Engineering purposes only)

- | | |
|-----------------------------|--------------------------|
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Characteristic Impedance | 60 Ω |
| 3) Inductance | 0.18 μH/ft, Nominal |
| 4) Mutual Capacitance | 28 pf/ft @1 kHz, Nominal |
| 5) Ground Capacitance | 50 pf/ft @1 kHz, Nominal |

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- 6) Conductor DCR 16.6 Ω /1000ft @20°C, Nominal
- 7) Ind. Shield DC Resistance 14.4 Ω /1000ft @20°C, Nominal

E. Other

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

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