

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6442
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Issue: 4
Issue Date: 5/26/2005
Effective Date: 8/1/2005

A. Construction

Diameters

- | | | | |
|----|----------------|--------------------------|-------|
| 1) | Component 1 | 2 X 1 PAIR | |
| | a) Conductor | 18 (19/30) AWG TC | |
| | b) Insulation | 0.016" Wall, Nom. PVC | 0.082 |
| | (1) Color Code | Alpha Wire Color Code BR | |
-
- | Pair | Color | Pair | Color | Pair | Color |
|------|---------------|------|---------------|------|-------|
| 1 | BLACK#1-RED#1 | 2 | BLACK#2-RED#2 | | |
-
- | | | | |
|----|-----------------------|---|--------------------|
| c) | Pair | 2/Cond Cabled Together | |
| | (1) Twists: | 4.8 Twists/foot (min) | |
| | Individually Applied: | | |
| | d) Shield: | Foil Free Alum/Mylar Tape, 25% Overlap, Min. | |
| | (1) Foil Direction | Foil Facing In | |
| | (2) Drain Wire | 20 (7/.0121) AWG TC | |
| 2) | Cable Assembly | 2 Components Cabled | |
| | a) Twists: | 2.7 Twists/foot (min) | |
| | b) Core Wrap | Clear Mylar Tape, 25% Overlap, Min. | |
| 3) | Jacket | 0.053" Wall, Nom., PVC | 0.406 (0.423 Max.) |
| | a) Color(s) | GRAY | |
| | b) Print | ALPHA WIRE-* P/N 6442 2PR 18 AWG
SHIELDED 105C (UL) TYPE PLTC SUN. RES. OR
TYPE CM --- 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 | CM | 105°C |
| | | PLTC | 105°C |
| | | SUN RES | |
| 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 105°C |
| 2) | Bend Radius | 10X Cable Diameter |
| 3) | Pull Tension | 76 Lbs, Maximum |

D. Electrical Properties

- | | | |
|---------------------------------|--------------------------|-----------------------------|
| (For Engineering purposes only) | | |
| 1) | Voltage Rating | 300 V _{RMS} |
| 2) | Mutual Capacitance | 59 pf/ft @1 kHz, Nominal |
| 3) | Ground Capacitance | 106 pf/ft @1 kHz, Nominal |
| 4) | Characteristic Impedance | 38 Ω |
| 5) | Inductance | 0.17 μH/ft, Nominal |
| 6) | Conductor DCR | 6.1 Ω/1000ft @20°C, Nominal |
| 7) | Component Shield DCR | 8.8 Ω/1000ft @20°C, Nominal |

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E. Other

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

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