

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6445
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Issue: 4
Issue Date: 5/26/2005
Effective Date: 8/1/2005

A. Construction

Diameters

- | | | |
|----------------|--------------------------|-------|
| 1) Component 1 | 6 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 | 3 | BLACK#3-RED#3 | 5 | BLACK#5-RED#5 |
| 2 | BLACK#2-RED#2 | 4 | BLACK#4-RED#4 | 6 | BLACK#6-RED#6 |
-
- | | | |
|-----------------------|---|--------------------|
| 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 | 6 Components Cabled | |
| a) Twists: | 1.8 Twists/foot (min) | |
| b) Core Wrap | Clear Mylar Tape, 25% Overlap, Min. | |
| 3) Jacket | 0.053" Wall, Nom., PVC | 0.557 (0.578 Max.) |
| a) Color(s) | GRAY | |
| b) Print | ALPHA WIRE-* P/N 6445 6PR 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
PLTC
SUN RES | 105°C
105°C |
| 2) CSA International | CMG
FT4 | 60°C |
| 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 | 227 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 |

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7) Component Shield DCR 8.9 Ω /1000ft @20°C, Nominal

E. Other

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

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