

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6441
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Issue: 4
Issue Date: 5/26/2005
Effective Date: 8/1/2005

A. Construction

Diameters

- | | | |
|----------------|--------------------------|-------|
| 1) Component 1 | 51 X 1 PAIR | |
| a) Conductor | 22 (7/.0096) AWG TC | |
| b) Insulation | 0.013" Wall, Nom. PVC | 0.055 |
| (1) Color Code | Alpha Wire Color Code BR | |

| Pair | Color | Pair | Color | Pair | Color |
|------|-----------------|------|-----------------|------|-----------------|
| 1 | BLACK#1-RED#1 | 18 | BLACK#18-RED#18 | 35 | BLACK#35-RED#35 |
| 2 | BLACK#2-RED#2 | 19 | BLACK#19-RED#19 | 36 | BLACK#36-RED#36 |
| 3 | BLACK#3-RED#3 | 20 | BLACK#20-RED#20 | 37 | BLACK#37-RED#37 |
| 4 | BLACK#4-RED#4 | 21 | BLACK#21-RED#21 | 38 | BLACK#38-RED#38 |
| 5 | BLACK#5-RED#5 | 22 | BLACK#22-RED#22 | 39 | BLACK#39-RED#39 |
| 6 | BLACK#6-RED#6 | 23 | BLACK#23-RED#23 | 40 | BLACK#40-RED#40 |
| 7 | BLACK#7-RED#7 | 24 | BLACK#24-RED#24 | 41 | BLACK#41-RED#41 |
| 8 | BLACK#8-RED#8 | 25 | BLACK#25-RED#25 | 42 | BLACK#42-RED#42 |
| 9 | BLACK#9-RED#9 | 26 | BLACK#26-RED#26 | 43 | BLACK#43-RED#43 |
| 10 | BLACK#10-RED#10 | 27 | BLACK#27-RED#27 | 44 | BLACK#44-RED#44 |
| 11 | BLACK#11-RED#11 | 28 | BLACK#28-RED#28 | 45 | BLACK#45-RED#45 |
| 12 | BLACK#12-RED#12 | 29 | BLACK#29-RED#29 | 46 | BLACK#46-RED#46 |
| 13 | BLACK#13-RED#13 | 30 | BLACK#30-RED#30 | 47 | BLACK#47-RED#47 |
| 14 | BLACK#14-RED#14 | 31 | BLACK#31-RED#31 | 48 | BLACK#48-RED#48 |
| 15 | BLACK#15-RED#15 | 32 | BLACK#32-RED#32 | 49 | BLACK#49-RED#49 |
| 16 | BLACK#16-RED#16 | 33 | BLACK#33-RED#33 | 50 | BLACK#50-RED#50 |
| 17 | BLACK#17-RED#17 | 34 | BLACK#34-RED#34 | 51 | BLACK#51-RED#51 |

- | | | |
|-----------------------|--|--------------------|
| 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 | 24 (7/32) AWG TC | |
| 2) Cable Assembly | 51 Components Cabled | |
| a) Twists: | 0.9 Twists/foot (min) | |
| b) Core Wrap | Clear Mylar Tape, 25% Overlap, Min. | |
| 3) Jacket | 0.075" Wall, Nom.,PVC | 1.005 (1.049 Max.) |
| a) Color(s) | GRAY | |
| b) Print | ALPHA WIRE-* P/N 6441 51PR 22 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 |

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3) Pull Tension 696 Lbs, Maximum

D. Electrical Properties (For Engineering purposes only)

1) Voltage Rating 300 V_{RMS}

2) Mutual Capacitance 47 pf/ft @1 kHz, Nominal

3) Ground Capacitance 85 pf/ft @1 kHz, Nominal

4) Characteristic Impedance 48 Ω

5) Inductance 0.19 μH/ft, Nominal

6) Conductor DCR 18.1 Ω/1000ft @20°C, Nominal

7) Component Shield DCR 19.8 Ω/1000ft @20°C, Nominal

E. Other

1) Packaging

a) 1000 FT

b) 500 FT

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