

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6426
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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) Print ALPHA NUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED 2 INCH SPACING(CTR. TO CTR.)
 - (2) 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 (approx.)
- 2) Cable Assembly 51 Components Cabled
 - a) Twists: 1.1 Twists/foot (min)
 - b) Core Wrap Clear Mylar Tape, 25% Overlap, Min.
- 3) Shield: Alum/Mylar Tape, 25% Overlap, Min.
 - a) Foil Direction Foil Facing In
 - b) Drain Wire 24 (7/32) AWG TC
- 4) Jacket 0.075" Wall, Nom.,PVC 0.901 (0.943 Max.)
 - a) Color(s) GRAY
 - b) Print ALPHA WIRE-* P/N 6426 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 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

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2) Bend Radius 10X Cable Diameter

3) Pull Tension 520 Lbs, Maximum

D. Electrical Properties (For Engineering purposes only)

1) Voltage Rating 300 V_{RMS}

2) Mutual Capacitance 32 pf/ft @1 kHz, Nominal

3) Ground Capacitance 58 pf/ft @1 kHz, Nominal

4) Characteristic Impedance 71 Ω

5) Inductance 0.19 μ H/ft, Nominal

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

7) OA Shield DCR 8.2 Ω /1000ft @20°C, Nominal

E. Other

1) Packaging

a) 1000 FT

b) 500 FT

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