

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6425
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Issue: 4
Issue Date: 5/26/2005
Effective Date: 8/1/2005

A. Construction

Diameters

- 1) Component 1 27 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	10	BLACK#10-RED#10	19	BLACK#19-RED#19
2	BLACK#2-RED#2	11	BLACK#11-RED#11	20	BLACK#20-RED#20
3	BLACK#3-RED#3	12	BLACK#12-RED#12	21	BLACK#21-RED#21
4	BLACK#4-RED#4	13	BLACK#13-RED#13	22	BLACK#22-RED#22
5	BLACK#5-RED#5	14	BLACK#14-RED#14	23	BLACK#23-RED#23
6	BLACK#6-RED#6	15	BLACK#15-RED#15	24	BLACK#24-RED#24
7	BLACK#7-RED#7	16	BLACK#16-RED#16	25	BLACK#25-RED#25
8	BLACK#8-RED#8	17	BLACK#17-RED#17	26	BLACK#26-RED#26
9	BLACK#9-RED#9	18	BLACK#18-RED#18	27	BLACK#27-RED#27

- c) Pair 2/Cond Cabled Together
 - (1) Twists: 8.0 Twists/foot (approx.)
- 2) Cable Assembly 27 Components Cabled
 - a) Twists: 1.5 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 0.063" Wall, Nom.,PVC 0.688 (0.721 Max.)
 - a) Color(s) GRAY
 - b) Print ALPHA WIRE-* P/N 6425 27PR 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
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 277 Lbs, Maximum

D. Electrical Properties (For Engineering purposes only)

- 1) Voltage Rating 300 V_{RMS}
- 2) Mutual Capacitance 32 pF/ft @1 kHz, Nominal

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- 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 Ω /1000ft @20°C, Nominal
- 7) OA Shield DCR 10.2 Ω /1000ft @20°C, Nominal

E. Other

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

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