

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6400
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Issue: 3
Issue Date: 5/26/2005
Effective Date: 8/1/2005

A. Construction

Diameters

- 1) Component 1 31 X 1 PAIR
 - a) Conductor 28 (7/36) AWG TC
 - b) Insulation 0.010" Wall, Nom. Polyethylene(PE) 0.035
 - (1) Color Code Alpha Wire Color Code K

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	12	RED-BROWN	23	BLUE-YELLOW
2	BLACK-WHITE	13	RED-ORANGE	24	BLUE-BROWN
3	BLACK-GREEN	14	GREEN-WHITE	25	BLUE-ORANGE
4	BLACK-BLUE	15	GREEN-BLUE	26	BROWN-YELLOW
5	BLACK-YELLOW	16	GREEN-YELLOW	27	BROWN-ORANGE
6	BLACK-BROWN	17	GREEN-BROWN	28	ORANGE-YELLOW
7	BLACK-ORANGE	18	GREEN-ORANGE	29	VIOLET-ORANGE
8	RED-WHITE	19	WHITE-BLUE	30	VIOLET-RED
9	RED-GREEN	20	WHITE-YELLOW	31	VIOLET-WHITE
10	RED-BLUE	21	WHITE-BROWN		
11	RED-YELLOW	22	WHITE-ORANGE		

- c) Pair 2/Cond Cabled Together
 - (1) Twists: 12.0 Twists/foot (min)
- 2) Cable Assembly 31 Components Cabled
 - a) Twists: 2.2 Twists/foot (min)
- 3) Shield: Alum/Mylar Tape, 25% Overlap, Min.
 - a) Foil Direction Foil Facing Out
 - b) Drain Wire 28 (7/36) AWG TC
 - c) Braid TC,90% Coverage, Min.
- 4) Jacket 0.035" Wall, Nom.,PVC 0.470 (0.500 Max.)
 - a) Color(s) GRAY
 - b) Print ALPHA WIRE-* P/N 6400 31PR 28 AWG
SHIELDED 75C (UL) TYPE CL2 OR AWM 2960
LLXXXXXX CSA TYPE CMH FT1 ROHS
* = Factory Code

[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

B. Industry Approvals

- 1) UL AWM/STYLE2960 60°C / 30V
 CL2 75°C
 VW-1
- 2) CSA International CMH 60°C
 FT1
- 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 75°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 96 Lbs, Maximum

D. Electrical Properties (For Engineering purposes only)

- 1) Voltage Rating 300 V_{RMS}
- 2) Characteristic Impedance 100 Ω

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- 3) Mutual Capacitance 15.5 pf/ft @1 kHz, Nominal
- 4) Ground Capacitance 27.5 pf/ft @1 kHz, Nominal
- 5) Conductor DCR 67 Ω /1000ft @20°C, Nominal
- 6) OA Shield DCR 2.25 Ω /1000ft @20°C, Nominal

E. Other

- 1) Packaging
 - a) 1000 FT
 - b) 500 FT
 - c) 100 FT

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