

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 6381
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Issue: 3
Issue Date: 5/23/2005
Effective Date: 8/1/2005

A. Construction

Diameters

- 1) Component 1 12 X 1 PAIR
 a) Conductor 22 (7/30) AWG TC
 b) Insulation 0.010" Wall, Nom. PVC, Semi Rigid 0.050
 (1) Color Code Alpha Wire Color Code A

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	5	BLACK-BROWN	9	RED-WHITE
2	BLACK-WHITE	6	BLACK-YELLOW	10	RED-BLUE
3	BLACK-GREEN	7	BLACK-ORANGE	11	RED-YELLOW
4	BLACK-BLUE	8	RED-GREEN	12	RED-BROWN

- c) Pair 2/Cond Cabled Together
 (1) Twists: 8.0 Twists/foot (min)
- 2) Component 2 1 X 1 COND
 a) Conductor 22 (7/30) AWG TC
 b) Insulation 0.010" Wall, Nom. PVC, Semi Rigid 0.050
 (1) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	RED				

- 3) Cable Assembly 13 Components Cabled
 a) Twists: 2.4 Twists/foot (min)
- 4) Shield: Alum/Mylar Tape, 25% Overlap, Min.
 a) Foil Direction Foil Facing Out
 b) Drain Wire 24 (7/32) AWG TC
 c) Braid TC, 65% Coverage, Min.
- 5) Jacket 0.032" Wall, Nom., PVC 0.430 (0.452 Max.)
 a) Color(s) GRAY
 b) Print ALPHA WIRE-* P/N 6381 12PR/1C 22 AWG
 SHIELDED 75C (UL) TYPE CM OR AWM 2464 --- 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 AWM/STYLE2464 80°C / 300V
 CM 75°C
 VW-1
- 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 80°C
 2) Bend Radius 10X Cable Diameter
 3) Pull Tension 148 Lbs, Maximum

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- D. Electrical Properties** (For Engineering purposes only)
- 1) Voltage Rating 300 V_{RMS}
 - 2) Characteristic Impedance 70 Ω
 - 3) Mutual Capacitance 35 pf/ft @1 kHz, Nominal
 - 4) Ground Capacitance 63 pf/ft @1 kHz, Nominal
 - 5) Conductor DCR 16.6 Ω/1000ft @20°C, Nominal
 - 6) OA Shield DCR 2.6 Ω/1000ft @20°C, Nominal
- E. Other**
- 1) Packaging
 - a) 1000 FT
 - b) 500 FT
 - c) 100 FT

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