

**ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 517090
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Issue: 4
Issue Date: 2/8/2008
Effective Date: 2/8/2008

A. Construction

Diameters

- 1) Component 1 12 X 1 COND
- a) Conductor 20 (7/28) AWG TC
- b) Insulation 0.015" Wall, Nom. PVC 0.068
- (1) Color Code Alpha Wire Color Code D

Cond	Color	Cond	Color	Cond	Color
1	BLACK	5	ORANGE	9	VIOLET
2	RED	6	BLUE	10	GRAY
3	WHITE	7	BROWN	11	PINK
4	GREEN	8	YELLOW	12	TAN

- 2) Cable Assembly 12 Components Cabled
- a) Twists: 3.0 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 20 (7/28) AWG TC
- 4) Jacket 0.043" Wall, Nom., PVC 0.376 (0.396 Max.)
- a) Color(s) BLACK
- b) Print ALPHA WIRE-* P/N 517090 12C 20 AWG
SHIELDED 105C (UL) TYPE PLTC SUN RES ---
LLXXXXXX CSA TYPE CMG FT4 ROHS LOT # XXXX
* = Factory Code

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

B. Industry Approvals

- 1) UL 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.

C. Physical & Mechanical Properties

- 1) Temperature Range -20 to 105°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 114 Lbs, Maximum

D. Electrical Properties

(For Engineering purposes only)

- 1) Voltage Rating 300 V_{RMS}
- 2) Capacitance 46 pf/ft @1 kHz, Nominal Conductor to Conductor
- 3) Ground Capacitance 83 pf/ft @1 kHz, Nominal
- 4) Inductance 0.19 µH/ft, Nominal
- 5) Conductor DCR 10.2 Ω/1000ft @20°C, Nominal
- 6) OA Shield DCR 7.5 Ω/1000ft @20°C, Nominal

E. Other

- 1) Packaging

This Design is custom, Made-To-Order & once accepted, the order is NON-CANCELLABLE & NON-RETURNABLE.

Accepted By:	Date:
Company:	Title:

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