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**ALPHA WIRE COMPANY**  
**CUSTOMER PRODUCT SPECIFICATION**

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**Part Number: 3233**

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**Issue: 4**

**Issue Date: 5/19/2005**

**Effective Date: 8/1/2005**

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**A. Construction**

**Diameters**

- 1) Component 1                      4 X 1 COND
  - a) Conductor                      20 (19/32) AWG TC
  - b) Insulation                      0.010" Wall, Nom. PVC/ 0.003" Wall NYLON                      0.066
  - (1) Color Code                      Alpha Wire Color Code G

Cond	Color	Cond	Color	Cond	Color
1	WHITE	3	RED		
2	BLACK	4	GREEN		

- 2) Cable Assembly                      4 Components Cabled
    - a) Twists:                      5.3 Twists/foot (min)
    - b) Core Wrap                      Clear Mylar Tape, 25% Overlap, Min.
  - 3) Shield                      TC BRAID Shield, 90% Coverage, Min.
  - 4) Jacket                      0.021" Wall, Nom., PVC                      0.227 (0.243 Max.)
    - a) Color(s)                      GRAY
    - b) Print                      ALPHA WIRE-\* P/N 3233
- ROHS  
\* = Factory Code

**B. Industry Approvals**

- 1) Military
  - a) Component 1                      MIL-W-16878/Type B/N                      105°C / 600V
- 2) 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.
- 3) 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                      -55 to 105°C
- 2) Bend Radius                      10X Cable Diameter
- 3) Pull Tension                      43 Lbs, Maximum

**D. Electrical Properties**

- (For Engineering purposes only)
- 1) Voltage Rating                      600 V<sub>RMS</sub>
- 2) Capacitance                      49 pf/ft @1 kHz, Nominal Conductor to Conductor
- 3) Ground Capacitance                      88 pf/ft @1 kHz, Nominal
- 4) Inductance                      0.18 µH/ft, Nominal
- 5) Conductor DCR                      9.4 Ω/1000ft @20°C, Nominal
- 6) OA Shield DCR                      4 Ω/1000ft @20°C, Nominal

**E. Other**

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

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