

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

Part Number: 6020C

Issue: 6

Page 1 of 2 Pages

Issue Date: 5/26/2005

Effective Date: 8/1/2005

**A. Construction**

Diameters

- 1) Component 1                      19 X 1 PAIR
  - a) Conductor                      22 (7/30) AWG TC
  - b) Insulation                      0.010" Wall, Nom. Polypropylene(PP)                      0.050
    - (1) Color Code                      Alpha Wire Color Code A

Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	8	RED-GREEN	15	GREEN-WHITE
2	BLACK-WHITE	9	RED-WHITE	16	GREEN-BROWN
3	BLACK-GREEN	10	RED-BLUE	17	GREEN-ORANGE
4	BLACK-BLUE	11	RED-YELLOW	18	GREEN-YELLOW
5	BLACK-BROWN	12	RED-BROWN	19	WHITE-BLUE
6	BLACK-YELLOW	13	RED-ORANGE		
7	BLACK-ORANGE	14	GREEN-BLUE		

- c) Pair                                      2/Cond Cabled Together
  - (1) Twists:                              8.0 Twists/foot (min)
 Individually Applied:
  - d) Shield:                                Foil Free Alum/Mylar Tape, 25% Overlap, Min.
    - (1) Foil Direction                      Foil Facing In
    - (2) Drain Wire                        22 (7/30) AWG TC
- 2) Cable Assembly                      19 Components Cabled
  - a) Twists:                                1.7 Twists/foot (min)
  - b) Core Wrap                            Clear Mylar Tape, 25% Overlap, Min.
- 3) Jacket                                    0.063" Wall, Nom.,PVC    0.593 (0.621 Max.)
  - a) Color(s)                                GRAY
  - b) Print                                    ALPHA WIRE-\* P/N 6020C 19PR 22 AWG  
SHIELDED 75C (UL) TYPE CM OR AWM 2493 ---  
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/STYLE2493    60°C  
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 75°C
- 2) Bend Radius                              10X Cable Diameter
- 3) Pull Tension                                313 Lbs, Maximum

**D. Electrical Properties**

(For Engineering purposes only)

- 1) Voltage Rating                            300 V<sub>RMS</sub>
- 2) Characteristic Impedance              60 Ω
- 3) Inductance                                0.18 μH/ft, Nominal
- 4) Mutual Capacitance                      28 pf/ft @1 kHz, Nominal

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.  
Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

---

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

---

**Part Number: 6020C**  
**Page 2 of 2 Pages**

**Issue: 6**  
**Issue Date: 5/26/2005**  
**Effective Date: 8/1/2005**

---

- 5) Ground Capacitance 50 pf/ft @1 kHz, Nominal
- 6) Conductor DCR 16.6  $\Omega$ /1000ft @20°C, Nominal
- 7) Ind. Shield DC Resistance 14.4  $\Omega$ /1000ft @20°C, Nominal

**E. Other**

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

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.