

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

**Part Number: 58420/19**  
**Page 1 of 1 Pages**

**Issue: 8**  
**Issue Date: 1/30/2009**  
**Effective Date: 2/6/2009**

**A. Construction**

Diameters (In)

- 1) Component 1 19 X 1 PAIR
  - a) Conductor 22 (7/30) AWG BC
  - b) Insulation 0.008" Wall, Nom. PVC, Plenum Rated 0.046
  - (1) Color Code Alpha Wire Company Color Code A1

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

- c) Pair 2/Cond Cabled Together
- (1) Twists: 8.0 Twists/foot (min)
- 2) Cable Assembly 19 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 24 (7/32) AWG TC
- 4) Jacket 0.018" Wall, Nom.,PVC, Plenum Rated 0.418 (0.441 Max.)
  - a) Color(s) SLATE
  - b) Print ALPHA WIRE-\* P/N 58420/19 19PR 22 AWG  
SHIELDED 75C CMP(UL) C(UL) OR 75C (UL) CL2P ROHS  
\* = Factory Code

**B. Industry Approvals**

- 1) UL CL2P 75°C  
CMP 75°C
- 2) CSA International FT6  
C(UL) TYPE CMP 75°C
- 3) Other REACH Regulation (EC 1907/2006)
- 4) 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.
- 5) 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 212 Lbs, Maximum

**D. Electrical Properties**

- (For Engineering purposes only)
- 1) Voltage Rating 300 V<sub>RMS</sub>
- 2) Mutual Capacitance 34 pf/ft @1 kHz, Nominal
- 3) Ground Capacitance 61 pf/ft @1 kHz, Nominal
- 4) Characteristic Impedance 63 Ω
- 5) Inductance 0.17 μH/ft, Nominal
- 6) Conductor DCR 15.4 Ω/1000ft @20°C, Nominal
- 7) OA Shield DCR 11.6 Ω/1000ft @20°C, Nominal

**E. Other**

- 1) Packaging
  - a) 1000 FT

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes 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) 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.