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## ALPHA WIRE COMPANY CUSTOMER PRODUCT SPECIFICATION

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Part Number: 5480/19C

Issue: 5

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Issue Date: 5/23/2005

Effective Date: 8/1/2005

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**A. Construction****Diameters**

- 1) Component 1                      19 X 1 PAIR
- a) Conductor                     24 (7/32) AWG TC
- b) Insulation                    0.010" Wall, Nom. PVC, Semi Rigid                      0.044
- (1) Color Code                Alpha Wire Color Code K

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:                    9.6 Twists/foot (min)
- 2) Cable Assembly                    19 Components Cabled
- a) Twists:                        2.3 Twists/foot (min)
- 3) Shield:                            Alum/Mylar Tape, 25% Overlap, Min.
- a) Foil Direction                Foil Facing In
- b) Drain Wire                    24 (7/32) AWG TC
- 4) Jacket                             0.040" Wall, Nom.,PVC    0.445 (0.470 Max.)
- a) Color(s)                        GRAY
- b) Print                            ALPHA WIRE-\* P/N 5480/19C 19PR 24 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
- 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                        137 Lbs, Maximum

**D. Electrical Properties** (For Engineering purposes only)

- 1) Voltage Rating                    300 V<sub>RMS</sub>
- 2) Mutual Capacitance                23.1 pf/ft @1 kHz, Nominal
- 3) Ground Capacitance                42 pf/ft @1 kHz, Nominal
- 4) Characteristic Impedance        82 Ω
- 5) Inductance                         0.19 μH/ft, Nominal
- 6) Conductor DCR                    26 Ω/1000ft @20°C, Nominal
- 7) OA Shield DCR                    13.4 Ω/1000ft @20°C, Nominal

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**E. Other**

- 1) Packaging
  - a) 1000 FT
  - b) 500 FT
  - c) 100 FT
  - d) Bulk(Made-to-order)

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