

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 58906
Page 1 of 1 Pages

Issue: 5
Issue Date: 4/18/2005
Effective Date: 6/27/2005

A. Construction

Diameters

- | 1) Component 1 | 6 X 1 PAIR | | | | | | | | | | | | | | | | | | | |
|---|---|--------------------|--------------|-------|-------------------------|-------|------|-------|---|--------------|---|------------|---|-------------------------|---|------------|---|--------------|---|-------------------------|
| a) Conductor | 24 (7/32) AWG TC | | | | | | | | | | | | | | | | | | | |
| b) Insulation | 0.012" Wall, Nom. Teflon(FEP) | 0.048 | | | | | | | | | | | | | | | | | | |
| (1) Color Code | Alpha Wire Color Code N | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Pair</th> <th>Color</th> <th>Pair</th> <th>Color</th> <th>Pair</th> <th>Color</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>BLACK-YELLOW</td> <td>3</td> <td>BLUE-BROWN</td> <td>5</td> <td>BLACK/WHITE-WHITE/BLACK</td> </tr> <tr> <td>2</td> <td>RED-VIOLET</td> <td>4</td> <td>ORANGE-GREEN</td> <td>6</td> <td>BROWN/WHITE-WHITE/BROWN</td> </tr> </tbody> </table> | | | Pair | Color | Pair | Color | Pair | Color | 1 | BLACK-YELLOW | 3 | BLUE-BROWN | 5 | BLACK/WHITE-WHITE/BLACK | 2 | RED-VIOLET | 4 | ORANGE-GREEN | 6 | BROWN/WHITE-WHITE/BROWN |
| Pair | Color | Pair | Color | Pair | Color | | | | | | | | | | | | | | | |
| 1 | BLACK-YELLOW | 3 | BLUE-BROWN | 5 | BLACK/WHITE-WHITE/BLACK | | | | | | | | | | | | | | | |
| 2 | RED-VIOLET | 4 | ORANGE-GREEN | 6 | BROWN/WHITE-WHITE/BROWN | | | | | | | | | | | | | | | |
| c) Pair | 2/Cond Cabled Together | | | | | | | | | | | | | | | | | | | |
| (1) Twists: | 9.6 Twists/foot (min) | | | | | | | | | | | | | | | | | | | |
| 2) Cable Assembly | 6 Components Cabled | | | | | | | | | | | | | | | | | | | |
| a) Twists: | 3.4 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 | 24 (7/32) AWG TC | | | | | | | | | | | | | | | | | | | |
| 4) Jacket | 0.011" Wall, Nom.,PVDF | 0.266 (0.281 Max.) | | | | | | | | | | | | | | | | | | |
| a) Color(s) | GRAY | | | | | | | | | | | | | | | | | | | |
| b) Print | ALPHA WIRE-* P/N 58906 6PR 24 AWG
SHIELDED 125C (UL) TYPE CL2P ---
LLXXXXXX CSA TYPE CMP FT6 ROHS | | | | | | | | | | | | | | | | | | | |

* = Factory Code

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

B. Industry Approvals

- | | | |
|-----------------------------------|--|-------|
| 1) UL | CL2P | 125°C |
| 2) CSA International | CMP
FT6 | 125°C |
| 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 | -55 to 125°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 46 Lbs, Maximum |

D. Electrical Properties

(For Engineering purposes only)

- | | |
|-----------------------------|----------------------------|
| 1) Voltage Rating | 150 V _{RMS} |
| 2) Characteristic Impedance | 110 Ω |
| 3) Mutual Capacitance | 12.5 pf/ft @1 kHz, Nominal |
| 4) Ground Capacitance | 23 pf/ft @1 kHz, Nominal |

E. Other

- | | |
|--------------|--|
| 1) Packaging | |
| a) 1000 FT | |
| b) 500 FT | |

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