

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 58401
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Issue: 7
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A. Construction

Diameters (In)

- | | | | |
|----|----------------|-------------------------------------|-------|
| 1) | Component 1 | 1 X 1 PAIR | |
| | a) Conductor | 24 (7/32) AWG BC | |
| | b) Insulation | 0.008" Wall, Nom. PVC, Plenum Rated | 0.040 |
| | (1) Color Code | Alpha Wire Company Color Code A1 | |
-
- | Pair | Color | Pair | Color | Pair | Color |
|------|-----------|------|-------|------|-------|
| 1 | BLACK-RED | | | | |
-
- | | | | |
|----|-------------------|---|--------------------|
| c) | Pair | 2/Cond Cabled Together | |
| | (1) Twists: | 9.6 Twists/foot (min) | |
| 2) | Shield: | Alum/Mylar Tape, 25% Overlap, Min. | |
| | a) Foil Direction | Foil Facing Out | |
| | b) Drain Wire | 24 (7/32) AWG TC | |
| 3) | Jacket | 0.015" Wall, Nom., PVC, Plenum Rated | 0.120 (0.131 Max.) |
| | a) Color(s) | SLATE | |
| | b) Print | ALPHA WIRE-* P/N 58401 1PR 24 AWG
SHIELDED 75C CMP(UL) C(UL) OR 75C (UL) CL2P ROHS
* = Factory Code | |

B. Industry Approvals

- | | | | |
|----|--------------------------------|--|--|
| 1) | UL | CMP 75°C
CL2P 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 | 10.6 Lbs, Maximum | |

D. Electrical Properties

- | | | | |
|---------------------------------|--------------------------|------------------------------|--|
| (For Engineering purposes only) | | | |
| 1) | Voltage Rating | 300 V _{RMS} | |
| 2) | Mutual Capacitance | 51 pf/ft @1 kHz, Nominal | |
| 3) | Ground Capacitance | 92 pf/ft @1 kHz, Nominal | |
| 4) | Characteristic Impedance | 43 Ω | |
| 5) | Inductance | 0.18 μH/ft, Nominal | |
| 6) | Conductor DCR | 23.7 Ω/1000ft @20°C, Nominal | |
| 7) | OA Shield DCR | 23.6 Ω/1000ft @20°C, Nominal | |

E. Other

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

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