

ALPHA WIRE COMPANY

CUSTOMER PRODUCT SPECIFICATION

Part Number: 6450
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Issue: 1
Issue Date: 5/20/2008
Effective Date: 5/20/2008

A. Construction

Diameters

- | | | |
|----------------|------------------------|-------|
| 1) Component 1 | 2 X 1 COAX | |
| a) Conductor | 18 (7/26) AWG TC | |
| b) Insulation | 0.025" Wall, Nom. FRPP | 0.096 |
| (1) Color(s) | | |

Cond	Color	Cond	Color	Cond	Color
1	BLUE	2	WHITE		

- | | | |
|-------------------|---|-----------------|
| 2) Cable Assembly | 2 Components Cabled | |
| a) Twists: | 6.9 Twists/foot (min) | |
| 3) Shield: | Alum/Mylar Tape, 25% Overlap, Min. | |
| a) Foil Direction | Foil Facing Out | |
| b) Drain Wire | 20 (7/28) AWG TC | |
| c) Braid | TC, 55% Coverage, Min. | |
| 4) Jacket | 0.053" Wall, Nom., PVC | 0.324 +/- 0.006 |
| a) Color(s) | BLUE | |
| b) Print | ALPHA WIRE P/N 6450 | |
| | EXXXXX 1PR18 SHIELDED (UL) 600V 75C DRY SUN RES | |
| | TYPE TC OR PLTC OR ITC OR CMG OR C(UL) CMG --- | |
| | P-MSHA (MSHA #) <SEQ FOOTAGE EVERY 2 FT> | |

B. Industry Approvals

- | | | |
|-----------------------------------|--|-------------|
| 1) UL | TC | 75°C / 600V |
| | PLTC | 75°C |
| | ITC | 75°C |
| | CMG | 75°C |
| | SUN RES | |
| 2) CSA International | CMG | 75°C |
| | FT4 | |
| 3) Other | PMSHA Specification | |
| 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. | |

C. Physical & Mechanical Properties

- | | |
|----------------------|--------------------|
| 1) Temperature Range | -40 to 75°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 40 Lbs, Maximum |

D. Electrical Properties

- | | |
|------------------------------|---------------------------------|
| | (For Engineering purposes only) |
| 1) Voltage Rating | 600 V _{RMS} |
| 2) Characteristic Impedance | 78 Ω +/- 5 |
| 3) Inductance | 0.12 μH/ft, Nominal |
| 4) Mutual Capacitance | 19.5 pF/ft @1 kHz, Nominal |
| 5) Velocity of Propagation | 65 % |
| 6) Conductor DCR | 6.9 Ω/1000ft @20°C, Nominal |
| 7) OA Shield DCR | 3.2 Ω/1000ft @20°C, Nominal |
| 8) Attenuation, Max dB/100ft | 0.5 @ 1 MHz |
| | 2 @ 10 MHz |
| | 3.8 @ 50 MHz |
| | 5.4 @ 100 MHz |
| | 7.6 @ 200 MHz |
| | 10.7 @ 400 MHz |

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E. Other

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

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