

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Number: 5616B1601
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Issue: 5
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A. Construction

Diameters

- | | | | |
|----|---------------|--|-------|
| 1) | Component 1 | 1 X 1 PAIR | |
| | a) Conductor | 16 (7/.0192) AWG BC | |
| | b) Insulation | 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON | 0.100 |
| | (1) Color(s) | | |
-
- | Pair | Color | Pair | Color | Pair | Color |
|------|-------------|------|-------|------|-------|
| 1 | BLACK-WHITE | | | | |
-
- | | | | |
|----|-------------------|---|----------------|
| c) | Pair | 2/Cond Cabled Together | |
| | (1) Twists: | 4.0 Twists/foot (min) | |
| 2) | Shield: | Alum/Mylar Tape, 25% Overlap, Min. | |
| | a) Foil Direction | Foil Facing In | |
| | b) Drain Wire | 18 (7/.0152) AWG TC | |
| 3) | Jacket | 0.050" Wall, Nom.,PVC | 0.304+/- 0.017 |
| | a) Color(s) | BLACK | |
| | b) Print | ALPHA WIRE-* P/N 5616B1601 1PR 16 AWG (UL) TYPE TC 600V 90C DRY 75C WET SHIELDED SUN. RES. DIR. BUR. ROHS * = Factory Code | |

B. Industry Approvals

- | | | | |
|----|----|--------------------------------|-------------|
| 1) | UL | TC SUN RES DIRECT BURIAL | 90°C / 600V |
|----|----|--------------------------------|-------------|

C. Physical & Mechanical Properties

- | | | |
|----|-------------------|--------------------|
| 1) | Temperature Range | -20 to 90°C |
| 2) | Bend Radius | 10X Cable Diameter |
| 3) | Pull Tension | 53 Lbs, Maximum |
- (For Engineering purposes only)

D. Electrical Properties

- | | | |
|----|--------------------------|-----------------------------|
| 1) | Voltage Rating | 600 V _{RMS} |
| 2) | Mutual Capacitance | 49 pf/ft @1 kHz, Nominal |
| 3) | Ground Capacitance | 88 pf/ft @1 kHz, Nominal |
| 4) | Characteristic Impedance | 44 Ω |
| 5) | Inductance | 0.18 μH/ft, Nominal |
| 6) | Conductor DCR | 4.1 Ω/1000ft @20°C, Nominal |
| 7) | OA Shield DCR | 6.8 Ω/1000ft @20°C, Nominal |

E. Other

- | | |
|----|------------------------|
| 1) | Packaging |
| | a) 1000 FT |
| | b) Bulk(Made-to-order) |

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