

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 5616B1601
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Issue: 6
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A. Construction

Diameters (In)

- | | | | |
|----|---------------|--|-------|
| 1) | Component 1 | 1 X 1 PAIR | |
| | a) Conductor | 16 (7/.0192) AWG BC | 0.058 |
| | 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 (0.321 Max.) |
| | 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. Applicable Specifications

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

C. Environmental Compliance

- 1) 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.
- 2) California Proposition 65: The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

D. Physical & Mechanical Properties

- | | | |
|----|-------------------|--------------------|
| 1) | Temperature Range | -25 to 90°C |
| 2) | Bend Radius | 10X Cable Diameter |
| 3) | Pull Tension | 53 Lbs, Maximum |

E. Electrical Properties

- (For Engineering purposes only)
- | | | |
|----|--------------------------|-----------------------------|
| 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 |

F. Other

- | | | |
|----|------------------------|-------------------------------------|
| 1) | Packaging | Flange x Traverse x Barrel (inches) |
| | a) 1000 FT | 16 x 11 x 8 Continuous length |
| | b) 500 FT | 12 x 10 x 5 Continuous length |
| | c) Bulk(Made-to-order) | |

[Spool dimensions may vary slightly]

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