

**ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 518081
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Issue: 1
Issue Date: 11/18/2010
Effective Date: 11/18/2010

A. Construction

- | | | |
|----------------|-----------------------------------|-----------------------|
| | | Diameters (In) |
| 1) Component 1 | 5 X 1 COND | |
| a) Conductor | 28 (7/36) AWG TC | 0.015 |
| b) Insulation | 0.010" Wall, Nom. PVC, Semi Rigid | 0.035 |
| (1) Color(s) | | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	ORANGE	5	BLUE
2	RED	4	GREEN		

- | | | |
|-------------------|-------------------------------------|--------------------|
| 2) Cable Assembly | 5 Components Cabled | |
| a) Twists: | 12.0 Twists/foot (min) | |
| b) Core Wrap | Clear Mylar Tape, 25% Overlap, Min. | |
| 3) Shield | TC BRAID Shield, 90% Coverage, Min. | |
| 4) Jacket | 0.020" Wall, Nom., PVC | 0.160 (0.171 Max.) |
| a) Color(s) | DARK SLATE | |

B. Applicable Specifications

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.
- 2) REACH Regulation (EC 1907/2006):
This product does not contain any of the substances listed on the European Union REACH Substance of Very High Concern (SVHC) candidate list, dated 30 March 2010, in excess of a concentration of 0.1% weight/weight.
- 3) 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: -20 to 80°C
- 2) Bend Radius: 10X Cable Diameter
- 3) Pull Tension: 10.2 Lbs, Maximum
- 4) Sunlight Resistance: Yes

E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating: 300 V_{RMS}
 - 2) Capacitance: 25 pf/ft @1 kHz, Nominal Conductor to Conductor
 - 3) Ground Capacitance: 45 pf/ft @1 kHz, Nominal
 - 4) Inductance: 0.22 µH/ft, Nominal
 - 5) Conductor DCR: 66 Ω/1000ft @20°C, Nominal
 - 6) OA Shield DCR: 6.7 Ω/1000ft @20°C, Nominal

F. Other

- 1) Packaging: Flange x Traverse x Barrel (inches)
 - a) Bulk(Made-to-order)

This Design is custom, Made-To-Order & once accepted, the order is NON-CANCELLABLE & NON-RETURNABLE.

Accepted By:	Date:
Company:	Title:

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