

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 518169
Page 1 of 2 Pages

Issue: 1
Issue Date: 12/22/2011
Effective Date: 12/22/2011

A. Construction

- | | | <u>Diameters (In)</u> |
|----------------|--|-----------------------|
| 1) Component 1 | 2 X 1 COND | |
| a) Conductor | 18 (41/34) AWG BC | 0.047 |
| b) Insulation | 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON | 0.089 |
| (1) Color(s) | | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	WHITE		

- | | | |
|-------------------|--|----------------|
| 2) Cable Assembly | 2 Components Cabled | |
| a) Twists: | 6.9 Twists/foot (min) | |
| b) Core Wrap | REMAI Tape, 25% Overlap, Min. | |
| 3) Jacket | 0.050" Wall, Nom., TPE | 0.393+/- 0.018 |
| a) Color(s) | BLACK | |
| b) Print | ALPHA WIRE-* P/N 518169 2C 18 AWG
TFFN (UL) TYPE TC-ER 90C 600V
OIL RES I/II SUN RES
-- LLXXXXXX CSA AWM I/II A/B 90C 600V FT4
CE ROHS
* = Factory Code | |

[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

B. Applicable Specifications

- | | | |
|----------------------|--|-----------------------------|
| 1) UL | | |
| a) Component 1 | TFFN | 90°C / 600 V _{RMS} |
| b) Overall | TC
EXPOSED RUN
SUN RES
OIL RES I/II | 90°C / 600 V _{RMS} |
| 2) CSA International | AWM I/II A/B
FT4 | 90°C / 600 V _{RMS} |
| 3) CE: | LVD 73/23/EEC Amendment 93/68/EEC | |

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) 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(static), -5 to 90°C (dynamic)
- 2) Bend Radius: 10X Cable Diameter(static), 10X Cable Diameter(dynamic)
- 3) Pull Tension: 26 Lbs, Maximum
- 4) Sunlight Resistance: Yes

E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating: 600 V_{RMS}
 - 2) Capacitance: 29 pf/ft @1 kHz, Nominal Conductor to Conductor
 - 3) Inductance: 0.19 µH/ft, Nominal
 - 4) Conductor DCR: 6.6 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.

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