

**ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 669379
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Issue: 2
Issue Date: 11/11/2015
Effective Date: 11/25/2015

- A. Construction** Diameters (In)
- 1) Component 1 7 X 1 COND
- a) Conductor 16 (26/30) AWG Bare Copper 0.060
- b) Insulation 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON 0.102
- (1) Print ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND
INVERTED
- (2) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	BLACK #1	4	ORANGE #4	7	BLUE #7
2	BROWN #2	5	YELLOW #5		
3	RED #3	6	GREEN #6		

- 2) Cable Assembly 7 Components Cabled
- a) Twists: 2.8 Twists/foot (min)
- b) Orientation: Components to be arranged from OUTSIDE LAYER to INSIDE LAYER
- c) Core Wrap REMA Y Tape, 25% Overlap, Min.
- 3) Shield: Alum/Mylar Tape, 25% Overlap, Min.
- a) Foil Direction Foil Facing In
- b) Drain Wire 18 (16/30) AWG Tinned Copper 0.427+/- 0.022
- 4) Jacket 0.050" Wall, Nom., TPE
- a) Color(s) BLACK
- b) Print ALPHA WIRE-* P/N 669379 7C 16 AWG (1.32mm²)
PCMC # 30641170 TFFN SERIES P (UL) TYPE TC-ER 90C
600V OIL RES I/II SUN RES OR TYPE PLTC 90C
--- LLXXXXXX CSA AWM I/II A/B 90C 600V FT4
CE ROHS (DATE CODE) (SEQ FOOTAGE)
* = 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 90°C / 600 V_{RMS}
- EXPOSED RUN
- SUN RES
- PLTC 90°C
- OIL RES I/II
- 2) CSA International AWM I/II A/B 90°C / 600 V_{RMS}
- FT4
- 3) CE: EU Low Voltage Directive 2006/95/EC

C. Environmental Compliance

- 1) CE: EU Directive 2011/65/EU (RoHS2):
This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.
- 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 156 Lbs, Maximum
- 4) Sunlight Resistance Yes

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- E. Electrical Properties** (For Engineering purposes only)
- 1) Voltage Rating 600 V_{RMS}
 - 2) Capacitance 48 pf/ft @1 kHz, Nominal Conductor to Conductor
 - 3) Ground Capacitance 86 pf/ft @1 kHz, Nominal
 - 4) Inductance 0.18 µH/ft, Nominal
 - 5) Conductor DCR 4.1 Ω/1000ft @20°C, Nominal
 - 6) OA Shield DCR 5.7 Ω/1000ft @20°C, Nominal
- F. Other**
- 1) Packaging Flange x Traverse x Barrel (inches)
 - a) Bulk(Made-to-order)
 - 2) Notes:
 - a) Use W30-14 spool per customer request.

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

Accepted By: <i>Rob Barby</i>	Date: 11/24/15
Company: Paper Converting Co	Title: Senior Designer

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