

**ALPHA WIRE COMPANY**  
**CUSTOMER PRODUCT SPECIFICATION**

**Part Number: 669218**  
**Page 1 of 2 Pages**

**Issue: 4**  
**Issue Date: 6/19/2007**  
**Effective Date: 6/19/2007**

**A. Construction**

**Diameters**

- 1) Component 1 3 X 1 COND
- a) Conductor 16 (26/30) AWG BC
- b) Insulation 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON 0.102
- (1) Print ALPHA NUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED
- (2) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	BLACK #1	2	BLACK #2	3	BLACK #3

- 2) Cable Assembly 3 Components Cabled
- a) Twists: 4.0 Twists/foot (min)
- b) Core Wrap REMAY Tape, 25% Overlap, Min.
- 3) Shield: Alum/Mylar Tape, 25% Overlap, Min.
- a) Foil Direction Foil Facing In
- b) Drain Wire 16 (26/30) AWG TC
- 4) Jacket 0.050" Wall, Nom., TPE 0.339+/- 0.018
- a) Color(s) BLACK
- b) Print ALPHA WIRE-\* P/N 669218 3C 16 AWG (1.32mm<sup>2</sup>)  
TFFN SERIES P (UL) TYPE TC-ER 90C 600V  
OIL RES I/II SUN RES OR TYPE PLTC 90C  
--- LLXXXXXX CSA AWM IA/B IIA/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. Industry Approvals**

- 1) UL
  - a) Component 1 TFFN 90°C / 600V  
MTW
  - b) Overall TC 90°C / 600V  
EXPOSED RUN  
SUN RES  
PLTC 90°C  
OIL RES I/II
- 2) CSA International AWM-I-A/B-II-A/B 90°C / 600V  
FT4
- 3) 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.
- 4) California Proposition 65: The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.
- 5) CE: LVD 73/23/EEC Amendment 93/68/EEC

**C. Physical & Mechanical Properties**

- 1) Temperature Range -25 to 90°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 82 Lbs, Maximum
- 4) Sunlight Resistance Yes

**D. Electrical Properties**

- (For Engineering purposes only)
- 1) Voltage Rating 600 V<sub>RMS</sub>
- 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

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- 5) Conductor DCR                      4.1  $\Omega$ /1000ft @20°C, Nominal
- 6) OA Shield DCR                      4  $\Omega$ /1000ft @20°C, Nominal

**E. Other**

- 1) Packaging
  - 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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