

**ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION**

Part Number: 669281
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Issue: 2
Issue Date: 10/22/2008
Effective Date: 10/22/2008

A. Construction

Diameters

- | | | |
|----------------|----------------------------------|-------|
| 1) Component 1 | 4 X 1 COND | |
| a) Conductor | 14 (41/30) AWG BC | |
| b) Insulation | 0.032" Wall, Nom. PVC | 0.138 |
| (1) Color Code | Alpha Wire Company Color Code KX | |

Cond	Color	Cond	Color	Cond	Color
1	GREEN/YELLOW	3	BLACK#2		
2	BLACK#1	4	BLACK#3		

- | | | |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 2) Cable Assembly | 4 Components Cabled | |
| a) Twists: | 2.4 Twists/foot (min) | |
| b) Core Wrap | Clear Mylar Tape, 25% Overlap, Min. | |
| 3) Shield: | A/P/A Tape, 25% Overlap, Min. | |
| a) Drain Wire | 14 (41/30) AWG TC | |
| b) Braid | TC, 70% Coverage, Min. | |
| 4) Jacket | 0.065" Wall, Nom., PVC | 0.495 (0.516 Max.) |
| a) Color(s) | BLACK | |
| b) Print | ALPHA WIRE-* P/N 669281 4C 14 AWG
THW-2 EXXXXXX (UL) TYPE TC-ER 600V 90C
--- LLXXXXXX CSA AWM IA/B IIA/B 90C 600V FT4
CE ROHS
* = Factory Code | |

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

B. Industry Approvals

- | | | |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1) UL | | |
| a) Component 1 | THW-2 Wet/Dry | 90°C / 600V |
| b) Overall | TC | 90°C / 600V |
| | EXPOSED RUN | |
| 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) CE: | LVD 73/23/EEC Amendment 93/68/EEC | |

C. Physical & Mechanical Properties

- | | |
|----------------------|--------------------|
| 1) Temperature Range | -20 to 90°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 168 Lbs, Maximum |

D. Electrical Properties

- | | |
|-----------------------|-------------------------------------------------|
| | (For Engineering purposes only) |
| 1) Voltage Rating | 600 V _{RMS} |
| 2) Capacitance | 46 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 83 pf/ft @1 kHz, Nominal |
| 4) Inductance | 0.19 µH/ft, Nominal |
| 5) Conductor DCR | 2.6 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 1.38 Ω/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:
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