

ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 669259
Page 1 of 2 Pages

Issue: 9
Issue Date: 8/25/2010
Effective Date: 8/25/2010

A. Construction

Diameters (In)

- | | | | |
|----|---------------|------------------------------------------|-------|
| 1) | Component 1 | 1 X 2 COND | |
| | a) Conductor | 14 (105/34) AWG BC | 0.074 |
| | b) Insulation | 0.018" Wall, Nom. PVC/ 0.005" Wall NYLON | 0.120 |
| | (1) Color(s) | | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	PURPLE		

- | | | | |
|----|---------------|------------------------------------------|-------|
| c) | Cabling | 2 COND Cabled | |
| | (1) Twists: | 3.2 Twists/foot (min) | |
| | (2) Core Wrap | Clear Mylar Tape, 25% Overlap, Min. | |
| 2) | Component 2 | 12 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	BLUE	5	GREEN	9	TAN
2	YELLOW	6	RED	10	TAN/YELLOW
3	ORANGE	7	RED/YELLOW	11	ORANGE/YELLOW
4	BROWN	8	BLACK/YELLOW	12	BLUE/YELLOW

- | | | | |
|----|---------------------|--------------------------------------------------------------------------------------------|----------------|
| 3) | Cable Assembly | 13 Components Cabled | |
| | a) Twists: | 1.8 Twists/foot (min) | |
| | b) Core Wrap | REMA Y Tape, 25% Overlap, Min. | |
| 4) | Jacket | 0.063" Wall, Nom., TPE | 0.590+/- 0.032 |
| | a) Color(s) | BLACK | |
| | b) Jacket Separator | Tissue Tape, 25% Overlap, Min. | |
| | c) Print | ALPHA WIRE-* P/N 669259 | |
| | | 2/C 14 AWG + 12/C 18 AWG RU AWM 20626 90C 600V | |
| | | --- LLXXXXXX CSA AWM IA/B IIA/B 90C 600V FT1 | |
| | | MILLER P/N 236551 | |
| | | * = Factory Code | |
| | | <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i> | |

B. Applicable Specifications

- | | | | |
|----|-------------------|-----------------|-----------------------------|
| 1) | UL | | |
| | a) Component 1 | THHN | 90°C / 600 V _{RMS} |
| | b) Component 2 | TFFN | 90°C / 600 V _{RMS} |
| | c) Overall | AWM/STYLE 20626 | 90°C / 600 V _{RMS} |
| 2) | CSA International | AWM I/II A/B | 90°C / 600 V _{RMS} |
| | | FT1 | |

C. Environmental Compliance

D. Physical & Mechanical Properties

- | | | | |
|----|---------------------|--------------------|--|
| 1) | Temperature Range | -40 to 90°C | |
| 2) | Bend Radius | 10X Cable Diameter | |
| 3) | Pull Tension | 219 Lbs, Maximum | |
| 4) | Sunlight Resistance | Yes | |

E. Electrical Properties

(For Engineering purposes only)

- | | | | |
|----|------------------|-------------------------------------------------|--|
| 1) | Voltage Rating | 600 V _{RMS} | |
| 2) | Component 1 | | |
| | a) Capacitance | 33 pf/ft @1 kHz, Nominal Conductor to Conductor | |
| | b) Inductance | 0.17 µH/ft, Nominal | |
| | c) Conductor DCR | 2.6 Ω/1000ft @20°C, Nominal | |
| 3) | Component 2 | | |
| | a) Capacitance | 29 pf/ft @1 kHz, Nominal Conductor to Conductor | |

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ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

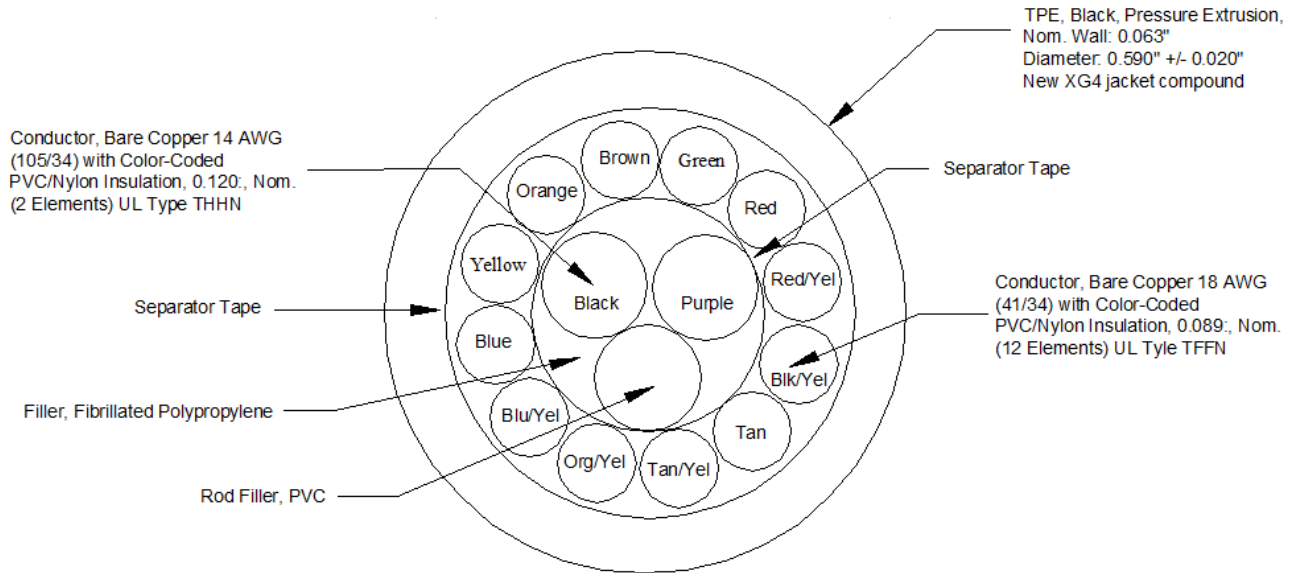
Part Number: 669259
Page 2 of 2 Pages

Issue: 9
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- b) Inductance 0.19 μ H/ft, Nominal
- c) 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.

Accepted By:	Date:
Company:	Title:

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