

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: B963053
Page 1 of 2 Pages

Issue: 2
Issue Date: 1/4/2013
Effective Date: 1/18/2013

A. Construction

Diameters (mm)

- 1) Component 1 5 X 1 PAIR
- a) Conductor 24 (7/32) AWG TC
- b) Insulation 0.25 Wall, Nom. PVC, Semi Rigid
- (1) Color Code Alpha Wire Color Code B

0.61
1.12

Pair	Color	Pair	Color	Pair	Color
1	WHITE-BLACK	3	WHITE-RED	5	WHITE-YELLOW
2	WHITE-BROWN	4	WHITE-ORANGE		

- c) Pair 2/Cond Cabled Together
- (1) Twists: 31.5 Twists/meter (min)
- 2) Cable Assembly 5 Components Cabled
- a) Twists: 17.5 Twists/meter (min)
- b) Core Wrap Clear Mylar Tape, 25% Overlap, Min.
- 3) Shield TC BRAID Shield, 85% Coverage, Min.
- a) Drain Wire 24 (7/32) AWG TC
- 4) Jacket 0.81 Wall, Nom., PVC 7.24 (7.64 Max.)
- a) Color(s) GREY
- b) Ripcord 1 End 810 Denier Nylon
- c) Print ALPHA WIRE-* P/N B963053

0.23MM2 (24AWG) (UL) TYPE CM 105C OR AWM 2464

VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4 CE

ROHS (SEQ METERS)

* = Factory Code

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

B. Applicable Specifications

- 1) UL
 - a) Component 1 AWM/STYLE 10002 105°C / 300 V_{RMS}
 - b) Overall AWM/STYLE 2464 80°C / 300 V_{RMS}
 - CM 105°C
 - VW-1
- 2) CSA International CMG 105°C
- FT4
- 3) IEC EN 60332-1 Flame Behavior
- EN 60332-2 Flame Behavior
- 4) 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) REACH Regulation (EC 1907/2006):
This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see [Alpha's REACH SVHC Declaration](#).

D. Physical & Mechanical Properties

- 1) Temperature Range -30 to 105°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 44 Lbs, Maximum
- 4) Sunlight Resistance Yes

E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating 300 V_{RMS}
- 2) Mutual Capacitance 82 pf/m @ 1 kHz, Nominal

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Page 2 of 2 Pages

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- | | |
|-----------------------------|------------------------------------|
| 3) Ground Capacitance | 147.6 pf/m @ 1 kHz, Nominal |
| 4) Characteristic Impedance | 76 Ω |
| 5) Inductance | 0.6232 μ H/m, Nominal |
| 6) Conductor DCR | 85.28 Ω /Km @20°C, Nominal |
| 7) OA Shield DCR | 12.464 Ω /Km @20°C, Nominal |

F. Other

- | | |
|--------------|---|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) 3280 FT | 30 x 14 x 12 Continuous length |
| b) 1640 FT | 20 x 11 x 8 Continuous length |
| c) 328 FT | 12 x 6 x 3.5 Continuous length |
| d) 164 FT | 12 x 4.5 x 3.5 Continuous length |
| | <i>[Spool dimensions may vary slightly]</i> |

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