

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

| | | | |
|----|----------------|---------------------------------|------|
| 1) | Component 1 | 5 X 1 PAIR | |
| | a) Conductor | 24 (7/32) AWG TC | 0.61 |
| | b) Insulation | 0.25 Wall, Nom. PVC, Semi Rigid | 1.12 |
| | (1) Color Code | Alpha Wire Color Code B | |

| 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 UL XXXXXXX CSA 105C TYPE CMG FT4 | CE |

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

B. Applicable Specifications

| | | | |
|----|-------------------|-------------------------------------|------------------------------|
| 1) | UL | AWM/STYLE 10002 | 105°C / 300 V _{RMS} |
| | a) Component 1 | | |
| | 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

| Electrical Properties | (For Engineering purposes only) |
|------------------------------|---------------------------------|
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Mutual Capacitance | 82 pf/m @ 1 kHz Nominal |

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

product availability. Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: B963053
Page 2 of 2 Pages

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

| | |
|-----------------------------|----------------------------|
| 3) Ground Capacitance | 147.6 pf/m @1 kHz, Nominal |
| 4) Characteristic Impedance | 76 Ω |
| 5) Inductance | 0.6232 µH/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 |

[Spool dimensions may vary slightly]

Although Alpha Wire Company ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.