



# **Customer Specification**

**PART NO. 6350** 

| Construction |  |  |  |  |  |
|--------------|--|--|--|--|--|
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| Color BLACK WHITE RED GREEN ORANGE BLUE WHITE/BLACK RED/BLACK | Cond<br>18<br>19<br>20<br>21<br>22<br>23                      | 0.010" Wa<br>Alpha Wir  | AWG Tinned Copper all, Nom. PVC, Semi Rigid re Color Code F  Color ORANGE/RED BLUE/RED RED/GREEN ORANGE/GREEN  | 0.030<br>0.050<br>Cond<br>35<br>36<br>37   | Color<br>WHITE/RED/ORANGE<br>ORANGE/WHITE/BLUE  |  |
|---|---|---|--|--|---|--|
| BLACK WHITE RED GREEN ORANGE BLUE WHITE/BLACK RED/BLACK       | Cond<br>18<br>19<br>20<br>21<br>22<br>23                      | 0.010" Wa<br>Alpha Wir  | ce Color Code F  Color  ORANGE/RED  BLUE/RED  RED/GREEN  | 0.050<br>Cond<br>35<br>36  | WHITE/RED/ORANGE  |  |
| BLACK WHITE RED GREEN ORANGE BLUE WHITE/BLACK RED/BLACK       | Cond<br>18<br>19<br>20<br>21<br>22<br>23                      | Alpha Wir   | Color Code F  Color  ORANGE/RED  BLUE/RED  RED/GREEN   | Cond<br>35<br>36   | WHITE/RED/ORANGE  |  |
| BLACK WHITE RED GREEN ORANGE BLUE WHITE/BLACK RED/BLACK       | Cond<br>18<br>19<br>20<br>21<br>22<br>23                      | <u> </u>  | Color ORANGE/RED BLUE/RED RED/GREEN  | 35<br>36   | WHITE/RED/ORANGE  |  |
| BLACK WHITE RED GREEN ORANGE BLUE WHITE/BLACK RED/BLACK       | 18<br>19<br>20<br>21<br>22<br>23                              | d   | ORANGE/RED BLUE/RED RED/GREEN  | 35<br>36   | WHITE/RED/ORANGE  |  |
| WHITE RED GREEN ORANGE BLUE WHITE/BLACK RED/BLACK             | 19<br>20<br>21<br>22<br>23                                    |   | BLUE/RED<br>RED/GREEN  | 36   |   |  |
| RED GREEN ORANGE BLUE WHITE/BLACK RED/BLACK                   | 20<br>21<br>22<br>23  |   | RED/GREEN  |  | ORANGE/WHITE/BLUE   |  |
| GREEN ORANGE BLUE WHITE/BLACK RED/BLACK                       | 21<br>22<br>23  |   |  | 27   |   |  |
| ORANGE<br>BLUE<br>WHITE/BLACK<br>RED/BLACK                    | 22  |   | ORANGE/GREEN   | 51   | WHITE/RED/BLUE  |  |
| BLUE<br>WHITE/BLACK<br>RED/BLACK                              | 23  |   | OTO TIVOL, OTTLETA   | 38   | BLACK/WHITE/GREEN   |  |
| WHITE/BLACK<br>RED/BLACK                                      |   |   | BLACK/WHITE/RED  | 39   | WHITE/BLACK/GREEN   |  |
| RED/BLACK   | 1   |   | WHITE/BLACK/RED  | 40   | RED/WHITE/GREEN   |  |
|   | 24  |   | RED/BLACK/WHITE  | 41   | GREEN/WHITE/BLUE  |  |
|   | 25  |   | GREEN/BLACK/WHITE  | 42   | ORANGE/RED/GREEN  |  |
| GREEN/BLACK   | 26  |   | ORANGE/BLACK/WHITE   | 43   | BLUE/RED/GREEN  |  |
| ORANGE/BLACK  | 27  |   | BLUE/BLACK/WHITE   | 44   | BLACK/WHITE/BLUE  |  |
| BLUE/BLACK  | 28  |   | BLACK/RED/GREEN  | 45   | WHITE/BLACK/BLUE  |  |
| BLACK/WHITE   | 29  |   | WHITE/RED/GREEN  | 46   | RED/WHITE/BLUE  |  |
| RED/WHITE   | 30  |   | RED/BLACK/GREEN  | 47   | GREEN/ORANGE/RED  |  |
| GREEN/WHITE   | 31  |   | GREEN/BLACK/ORANGE   | 48   | ORANGE/RED/BLUE   |  |
| BLUE/WHITE  | 32  |   | ORANGE/BLACK/GREEN   | 49   | BLUE/RED/ORANGE   |  |
| BLACK/RED   | 33  |   | BLUE/WHITE/ORANGE  | 50   | BLACK/ORANGE/RED  |  |
| 17 WHITE/RED 34   |   |   | BLACK/WHITE/ORANGE   |  |   |  |
| 2) Cable Assembly   |   |   | onents Cabled  |  |   |  |
| a) Twists:  |   |   | /foot (min)  |  |   |  |
| b) Orientation:   |   |   |  |  |   |  |
| 3) Shield:  |   |   | ar Tape, 20% Overlap, Min.   |  |   |  |
| a) Foil Direction   |   |   | g Out  |  |   |  |
| b) Drain Wire   |   |   |  |  |   |  |
| c) Braid  |   |   | opper,65% Coverage, Nom.   |  |   |  |
| 4) Jacket   |   |   | 0.053" Wall, Nom.,PVC 0.540 (0.568 Max.)   |  | <br>568 Max.)   |  |
| a) Color(s)   |   |   | SLATE  |  |   |  |
| b) Print  |   |   | ALPHA WIRE-* P/N 6350 50C 22 AWG SHIELDED 75C (UL) TYPE CM OR AWM 2464 OR C(UL) 60C TYPE CMG FT4 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]              |  |   |  |
| 1   | RED/WHITE  GREEN/WHITE  BLUE/WHITE  BLACK/RED  WHITE/RED  oly | RED/WHITE 30 GREEN/WHITE 31 BLUE/WHITE 32 BLACK/RED 33 WHITE/RED 34 oly | RED/WHITE 30  GREEN/WHITE 31  BLUE/WHITE 32  BLACK/RED 33  WHITE/RED 34  Oly 50 Compore 2.0 Twists  Compone LAYER to Alum/Myl  Foil Facing 24 (7/32)  Tinned Co  0.053" Wa  SLATE  ALPHA W  SHIELDED  OR C(UL)  * = Factor | RED/WHITE  30  RED/BLACK/GREEN  GREEN/WHITE  31  GREEN/BLACK/ORANGE  BLUE/WHITE  32  ORANGE/BLACK/GREEN  BLACK/RED  33  BLUE/WHITE/ORANGE  WHITE/RED  34  BLACK/WHITE/ORANGE  50  Components Cabled  2.0 Twists/foot (min)  Components to be arranged from INSIDE LAYER to OUTSIDE LAYER  Alum/Mylar Tape, 20% Overlap, Min.  Foil Facing Out  24 (7/32) AWG Tinned Copper  Tinned Copper,65% Coverage, Nom.  0.053" Wall, Nom.,PVC  SLATE  ALPHA WIRE-* P/N 6350 50C 22 AWG  SHIELDED 75C (UL) TYPE CM OR AWM 2464  OR C(UL) 60C TYPE CMG FT4 CE ROHS  * = Factory Code | RED/WHITE 30 RED/BLACK/GREEN 47  GREEN/WHITE 31 GREEN/BLACK/ORANGE 48  BLUE/WHITE 32 ORANGE/BLACK/GREEN 49  BLACK/RED 33 BLUE/WHITE/ORANGE 50  WHITE/RED 34 BLACK/WHITE/ORANGE  Oly 50 Components Cabled  2.0 Twists/foot (min)  Components to be arranged from INSIDE  LAYER to OUTSIDE LAYER  Alum/Mylar Tape, 20% Overlap, Min.  Foil Facing Out  24 (7/32) AWG Tinned Copper  Tinned Copper,65% Coverage, Nom.  0.053" Wall, Nom.,PVC 0.540 (0.95)  SLATE  ALPHA WIRE-* P/N 6350 50C 22 AWG  SHIELDED 75C (UL) TYPE CM OR AWM 2464  OR C(UL) 60C TYPE CMG FT4 CE ROHS  * = Factory Code |  |

# **Applicable Specifications**

| AWM/STYLE 2464                 | 80°C / 300 V <sub>RMS</sub> |                                    |
|--------------------------------|-----------------------------|------------------------------------|
| СМ                             | 75°C                        |                                    |
| VW-1                           |                             |                                    |
| C(UL) TYPE CMG                 | 60°C                        |                                    |
| FT4                            |                             |                                    |
| EU Low Voltage Directive 2014/ | 35/EU                       |                                    |
|                                | CM VW-1 C(UL) TYPE CMG FT4  | CM 75°C  VW-1  C(UL) TYPE CMG 60°C |

### **Environmental**

| 1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3): |  |  |  |  |  |
|--|--|--|--|--|--|
|  | This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015. No Exemptions are required for RoHS Compliance on this item. |  |  |  |  |
| 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.   |  |  |  |  |
| 3) California Proposition 65:  | This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for mor information.                                     |  |  |  |  |

## **Properties**

| Physical & Mechanical Properties |   |   |
|----------------------------------|---|---|
| 1) Temperature Range             | -20 to 80°C                                     |   |
| 2) Bend Radius                   | 10X Cable Diameter                              |   |
| 3) Pull Tension                  | 285 Lbs, Maximum                                |   |
| Electrical Properties            | (For Engineering purposes only)                 |   |
| 1) Voltage Rating                | 300 V <sub>RMS</sub>                            |   |
| 2) Capacitance                   | 35 pF/ft @1 kHz, Nominal Conductor to Conductor |   |
| 3) Ground Capacitance            | 63 pF/ft @1 kHz, Nominal                        |   |
| 4) Inductance                    | 0.18 μH/ft, Nominal                             |   |
| 5) Conductor DCR                 | 16.5 Ω/1000ft @20°C, Nominal                    |   |
| 6) OA Shield DCR                 | 2.9 Ω/1000ft @20°C, Nominal                     | _ |

## Other

| Packaging  | Flange x Traverse x Barrel (inches)  |
|------------|--------------------------------------|
| a) 1000 FT | 30 x 14 x 12 Continuous length       |
| b) 500 FT  | 18 x 14.25 x 8 Continuous length     |
| c) 100 FT  | 18 x 9 x 8 Continuous length         |
|            | [Spool dimensions may vary slightly] |
|            |                                      |

#### www.alphawire.com

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Tel: 1-800-52 ALPHA

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#### **EU/UK/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 6350

6350, RoHS-Compliant Commencing With 8/1/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). This product also complies with UK - RoHS. The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

| Substance                              | Maximum Control Value      |
|--|----------------------------|
| Lead                                   | 0.1% by weight (1000 ppm)  |
| Mercury                                | 0.1% by weight (1000 ppm)  |
| Cadmium                                | 0.01% by weight (100 ppm)  |
| Hexavalent Chromium                    | 0.1% by weight (1000 ppm ) |
| Polybrominated Biphenyls (PBB)         | 0.1% by weight (1000 ppm)  |
| Polybrominated Diphenyl Ethers (PBDE), |                            |
| Including Deca-BDE                     | 0.1% by weight (1000 ppm)  |
| Bis(2-ethylhexyl) phthalate (DEHP)     | 0.1% by weight (1000 ppm)  |
| Butyl benzyl phthalate (BBP)           | 0.1% by weight (1000 ppm)  |
| Dibutyl phthalate (DBP)                | 0.1% by weight (1000 ppm)  |
| Diisobutyl phthalate (DIBP)            | 0.1% by weight (1000 ppm)  |

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/8/2024

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