

## Customer Specification

### PART NO. 5682

## Construction

|                   |       |      |       |      |       | Diameters (In)                                                                                                                                                                                                                                                                                                                         |                    |
|-------------------|-------|------|-------|------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 1) Component 1    |       |      |       |      |       | 2 X 1 COND                                                                                                                                                                                                                                                                                                                             |                    |
| a) Conductor      |       |      |       |      |       | 26 (7/34) AWG Tinned Copper                                                                                                                                                                                                                                                                                                            | 0.019              |
| b) Insulation     |       |      |       |      |       | 0.010" Wall, Nom. PVC, Semi Rigid                                                                                                                                                                                                                                                                                                      | 0.039              |
| (1) Color Code    |       |      |       |      |       | Alpha Wire Color Code E                                                                                                                                                                                                                                                                                                                |                    |
| Cond              | Color | Cond | Color | Cond | Color |                                                                                                                                                                                                                                                                                                                                        |                    |
| 1                 | BLACK | 2    | BROWN |      |       |                                                                                                                                                                                                                                                                                                                                        |                    |
| 2) Cable Assembly |       |      |       |      |       | 2 Components Cabled                                                                                                                                                                                                                                                                                                                    |                    |
| a) Twists:        |       |      |       |      |       | 12.0 Twists/foot (min)                                                                                                                                                                                                                                                                                                                 |                    |
| b) Orientation:   |       |      |       |      |       | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER                                                                                                                                                                                                                                                                           |                    |
| c) Core Wrap      |       |      |       |      |       | Nonwoven Polyester Tape, 25% Overlap, Min.                                                                                                                                                                                                                                                                                             |                    |
| 3) Shield:        |       |      |       |      |       | A/P/A Tape, 25% Overlap, Min.                                                                                                                                                                                                                                                                                                          |                    |
| a) Drain Wire     |       |      |       |      |       | 26 (7/34) AWG Tinned Copper                                                                                                                                                                                                                                                                                                            |                    |
| b) Braid          |       |      |       |      |       | Tinned Copper, 70% Coverage, Nom.                                                                                                                                                                                                                                                                                                      |                    |
| 4) Jacket         |       |      |       |      |       | 0.032" Wall, Nom., PVC                                                                                                                                                                                                                                                                                                                 | 0.174 (0.184 Max.) |
| a) Color(s)       |       |      |       |      |       | Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White                                                                                                                                                                                                                                                                      |                    |
| b) Ripcord        |       |      |       |      |       | 1 End 810 Denier Nylon                                                                                                                                                                                                                                                                                                                 |                    |
| c) Print          |       |      |       |      |       | ALPHA WIRE-* P/N 5682 2C 26 AWG<br>XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C SUN RES<br>OR AWM 2464 80C 300V OR AWM 2517 105C 300V<br>VW-1 --- LLXXXXXX CSA 105C TYPE CMG FT4<br>CE ROHS OIL RESISTANT (SEQ FOOTAGE)<br>* = Factory Code<br><i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i> |                    |

## Applicable Specifications



| Physical & Mechanical Properties |                                                 |
|----------------------------------|-------------------------------------------------|
| 1) Temperature Range             | -35 to 105°C                                    |
| 2) Bend Radius                   | 10X Cable Diameter                              |
| 3) Pull Tension                  | 8.5 Lbs, Maximum                                |
| 4) Sunlight Resistance           | Yes                                             |
| Electrical Properties            | (For Engineering purposes only)                 |
| 1) Voltage Rating                | 300 V <sub>RMS</sub>                            |
| 2) Capacitance                   | 30 pF/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance            | 54 pF/ft @1 kHz, Nominal                        |
| 4) Characteristic Impedance      | 63 Ω                                            |
| 5) Inductance                    | 0.2 μH/ft, Nominal                              |
| 6) Conductor DCR                 | 41 Ω/1000ft @20°C, Nominal                      |
| 7) OA Shield DCR                 | 7.3 Ω/1000ft @20°C, Nominal                     |
|                                  |                                                 |

Other

| Packaging                           | Flange x Traverse x Barrel (inches)         |
|-------------------------------------|---------------------------------------------|
| a) 1000 FT                          | 12 x 5.94 x 5 Continuous length             |
| b) 500 FT                           | 10.5 x 5 x 3.5 Continuous length            |
| c) 100 FT                           | 6.5 x 2 x 1.9 Continuous length             |
| d) Bulk(Made-to-order)              |                                             |
|                                     | <i>[Spool dimensions may vary slightly]</i> |
| <b>Notes:</b>                       |                                             |
| a) Oil Resistant Jacket (7d @ 60C). |                                             |
|                                     |                                             |

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## EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5682

5682, RoHS-Compliant Commencing With 10/1/2008 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

Lead  
Mercury  
Cadmium  
Hexavalent Chromium  
Polybrominated Biphenyls (PBB)  
Polybrominated Diphenyl Ethers (PBDE) ,  
Including Deca-BDE  
Bis(2-ethylhexyl) phthalate (DEHP)  
Butyl benzyl phthalate (BBP)  
Dibutyl phthalate (DBP)  
Diisobutyl phthalate (DIBP)

### Maximum Control Value

0.1% by weight (1000 ppm)  
0.1% by weight (1000 ppm)  
0.01% by weight (100 ppm)  
0.1% by weight (1000 ppm )  
0.1% by weight (1000 ppm)  
  
0.1% by weight (1000 ppm)  
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0.1% by weight (1000 ppm)  
0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 6/17/2026

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