

Customer Specification

PART NO. 9852C

Construction

| | | | | Diameters (In) | |
|-----------------------|------------|---|---------------|--------------------|-------------|
| 1) Component 1 | | 3 X 1 PAIR | | | |
| a) Conductor | | 22 (7/30) AWG TC | | 0.030 | |
| b) Insulation | | 0.017" Wall, Nom. Foam HDPE | | 0.064 | |
| (1) Color(s) | | | | | |
| Pair | Color | Pair | Color | Pair | Color |
| 1 | GREEN-BLUE | 2 | YELLOW-ORANGE | 3 | WHITE-BROWN |
| c) Pair | | 2/Cond Cabled Together | | | |
| (1) Twists: | | 9.2 Twists/foot (min) | | | |
| Individually Applied: | | | | | |
| d) Shield: | | Alum/Mylar Tape, 25% Overlap, Min. | | | |
| (1) Foil Direction | | Foil Facing Out | | | |
| 2) Component 2 | | 1 X 1 PAIR | | | |
| a) Conductor | | 20 (7/28) AWG TC | | 0.038 | |
| b) Insulation | | 0.010" Wall, Nom. PVC, Semi Rigid | | 0.058 | |
| (1) Color(s) | | | | | |
| Pair | Color | Pair | Color | Pair | Color |
| 1 | BLACK-RED | | | | |
| c) Pair | | 2/Cond Cabled Together | | | |
| (1) Twists: | | 9.6 Twists/foot (min) | | | |
| Individually Applied: | | | | | |
| d) Shield: | | Alum/Mylar Tape, 25% Overlap, Min. | | | |
| (1) Foil Direction | | Foil Facing Out | | | |
| 3) Cable Assembly | | 4 Components Cabled | | | |
| a) Twists: | | 3.2 Twists/foot (min) | | | |
| 4) Shield: | | A/P/A Tape, 25% Overlap, Min. | | | |
| a) Drain Wire | | 22 (7/30) AWG TC | | | |
| b) Braid | | TC,94% Coverage, Min. | | | |
| 5) Jacket | | 0.032" Wall, Nom.,PVC | | 0.375 (0.391 Max.) | |
| a) Color(s) | | SLATE | | | |
| b) Print | | ALPHA WIRE-* P/N 9852C 3PR 22AWG 1PR 20AWG SHIELDED 75C (UL) CM OR AWM 2919 LOW VOLTAGE COMPUTER CABLE OR C(UL) CMG FT4 CE ROHS SEQ FOOTAGE * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.] | | | |

Applicable Specifications

| | | |
|----------------------|-------------------------------------|----------------------------|
| 1) UL | CM | 75°C |
| | AWM/STYLE 2919 | 80°C / 30 V _{RMS} |
| 2) CSA International | C(UL) TYPE CMG | 75°C |
| | FT4 | |
| 3) CE: | EU Low Voltage Directive 2006/95/EC | |
| | | |

Environmental

| | |
|--|--|
| 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 . |
| 3) California Proposition 65: | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. |
| | |

Properties

| Physical & Mechanical Properties | |
|----------------------------------|---------------------------------|
| 1) Temperature Range | -20 to 80°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 66 Lbs, Maximum |
| Electrical Properties | (For Engineering purposes only) |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Component 1 | |
| a) Characteristic Impedance | 78 Ω +/- 5 |
| b) Inductance | 0.21 μH/ft, Nominal |
| c) Mutual Capacitance | 16.7 pf/ft @1 kHz, Nominal |
| d) Ground Capacitance | 29.5 pf/ft @1 kHz, Nominal |
| e) Velocity of Propagation | 78 % |
| f) Conductor DCR | 16.7 Ω/1000ft @20°C, Nominal |
| g) Attenuation, Max dB/100ft | 2.32 @ 10 MHz |
| 3) Component 2 | |
| a) Inductance | 0.17 μH/ft, Nominal |
| b) Mutual Capacitance | 45 pf/ft @1 kHz, Nominal |
| c) Conductor DCR | 11.6 Ω/1000ft @20°C, Nominal |
| 4) OA Shield DCR | 1.5 Ω/1000ft @20°C, Nominal |
| | |

Other

| Packaging | Flange x Traverse x Barrel (inches) |
|------------|---|
| a) 1000 FT | 20 x 11 x 8 Continuous length |
| | <i>[Spool dimensions may vary slightly]</i> |
| | |

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 9852C

9852C, RoHS-Compliant Commencing With 11/1/2004 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)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/4/2024

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