

Customer Specification

PART NO. SPM1804

Construction

| | | | | | | Diamete | ers (In) |
|---------------------------------------|-------|---|--|-------|-------|----------------|----------|
| 1) Component 1 | 2 | 4 X 1 COND | | | | | |
| · · · · · · · · · · · · · · · · · · · | | 8 (19/30) AWG Bare Copper | | | | 0.050 | |
| b) Insulation 0.016" Wall, No | | n. PVC/ 0.005" Wall NYLON | | | 0.092 | | |
| (1) Color Code | ŀ | Alpha Wire Colo | or Code F | | | | |
| Cond | Color | | Cond | Color | Cond | | Color |
| 1 | BLACK | | 3 | RED | | | |
| 2 | WHITE | | 4 | GREEN | | | |
| 2) Cable Assembly 4 Components | | Components | Cabled | | | | |
| a) Twists: 4.0 Twists/foot | | /min) | | | | | |
| b) Orientation: Components | | Components to | b be arranged from INSIDE LAYER to OUTSIDE LAYER | | | | |
| c) Core Wrap Clear Mylar 1 | | Clear Mylar Tap | pe, 25% Overlap, Min. | | | | |
| 3) Jacket 0.050" | | 050" Wall, Nom.,PVC | | | | 0.326+/- 0.019 | |
| a) Color(s) GREEN | | | | | | | |
| b) Print | | ALPHA WIRE-* P/N SPM1804 4C 18 AWG (0.963mm2) SERIES SPM (UL) WTTC 90C DRY/WET 1000V OR (UL) TC-ER 90C DRY/WET 600V DIR BUR SUN RES OR MTW 18 AWG FLEXING C(RU) AWM I/II A/B 105C 600V FT1 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code | | | | | |

Applicable Specifications

| 1) UL | | | | |
|----------------------|-------------------------------------|---|--|--|
| a) Component 1 | Unlisted Conductor | 90°C Dry / 90°C Wet / 600 V _{RMS} | | |
| b) Overall | UL 1277 TC | 90°C Dry / 90°C Wet / 600 V _{RMS} | | |
| | UL 2277 WTTC | 90°C Dry / 90°C Wet / 1000 V _{RMS} | | |
| | SUN RES | | | |
| | UL 1685 Vertical Tray Flame Test | | | |
| | UL 1063 MTW | 90°C Dry / 60°C Wet / 600 V _{RMS} | | |
| | OIL RES I | | | |
| | DIRECT BURIAL | | | |
| | EXPOSED RUN | | | |
| 2) CSA International | C(RU) AWM I/II A/B FT1 | 105°C / 600 V _{RMS} | | |
| 3) Other | | | | |
| a) Component 1 | ASTM-B174 Class K | | | |
| 4) CE: | EU Low Voltage Directive 2014/35/EU | | | |

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. |

Properties

| Physical & Mechanical Properties | | | |
|----------------------------------|---|--|--|
| 1) Temperature Range | -40 to 90°C(static), -30 to 90°C (dynamic) | | |
| 2) Bend Radius | 10X Cable Diameter | | |
| 3) Pull Tension | 60 Lbs, Maximum | | |
| 4) Sunlight Resistance | Yes | | |
| 5) Direct Burial | Yes | | |
| Electrical Properties | (For Engineering purposes only) | | |
| 1) Voltage Rating | 600/1000 V _{RMS} | | |
| 2) Capacitance | 27 pF/ft @1 kHz, Nominal Conductor to Conductor | | |
| 3) Inductance | 0.19 μH/ft, Nominal | | |
| 4) Conductor DCR | 5.6 Ω/1000ft @20°C, Nominal | | |

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Other

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| Packaging | Flange x Traverse x Barrel (inches) |
|------------------------|-------------------------------------|
| a) Bulk(Made-to-order) | |
| | |

www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

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: SPM1804

SPM1804, RoHS-Compliant Commencing With 8/24/2009 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 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 4/29/2024

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374 Tel: 1-908-925-8000