

Customer Specification

PART NO. 5160C

Construction

| | | | | | | Diameters (In) | | |
|-------------------|-------|------|--------|------|--------|--|--|--------------------|
| 1) Component 1 | | | | | | 10 X 1 COND | | |
| a) Conductor | | | | | | 20 (7/28) AWG Tinned Copper | | 0.038 |
| b) Insulation | | | | | | 0.016" Wall, Nom. PVC | | 0.070 |
| (1) Color Code | | | | | | Alpha Wire Color Code D | | |
| Cond | Color | Cond | Color | Cond | Color | | | |
| 1 | BLACK | 5 | ORANGE | 9 | VIOLET | | | |
| 2 | RED | 6 | BLUE | 10 | SLATE | | | |
| 3 | WHITE | 7 | BROWN | | | | | |
| 4 | GREEN | 8 | YELLOW | | | | | |
| 2) Cable Assembly | | | | | | 10 Components Cabled | | |
| a) Twists: | | | | | | 3.0 Twists/foot (min) | | |
| b) Orientation: | | | | | | Components to be arranged from INSIDE LAYER to OUTSIDE LAYER | | |
| c) Core Wrap | | | | | | Nonwoven Polyester Tape, 20% Overlap, Min. | | |
| 3) Shield: | | | | | | A/P/A Tape, 20% Overlap, Min. | | |
| a) Drain Wire | | | | | | 20 (7/28) AWG Tinned Copper | | |
| b) Braid | | | | | | Tinned Copper, 70% Coverage, Nom. | | |
| 4) Jacket | | | | | | 0.032" Wall, Nom., PVC | | 0.376 (0.392 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 5160C 10C 20 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C SUN RES OR AWM 2464 80C 300V OR AWM 2517 105C 300V VW-1 OR C(UL) TYPE CMG 105C FT4 CE ROHS OIL RESISTANT (SEQ FOOTAGE) * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i> | | |

Applicable Specifications

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|----------------------|-------------------------------------|------------------------------|
| 1) UL | | |
| a) Component 1 | AWM/STYLE 1569 | 105°C / 300 V _{RMS} |
| b) Overall | AWM/STYLE 2517 | 105°C / 300 V _{RMS} |
| | SUN RES | |
| | AWM/STYLE 2464 | 80°C / 300 V _{RMS} |
| | CM | 105°C |
| | VW-1 | |
| 2) CSA International | C(UL) TYPE CMG | 105°C |
| | FT4 | |
| 3) IEC | EN 60332-1 Flame Behavior | |
| | EN 60332-2 Flame Behavior | |
| 4) Other | Oil Resistant | |
| 5) 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. |
| 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 more information. |

Properties

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| Physical & Mechanical Properties | |
|---|---|
| 1) Temperature Range | -30 to 105°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 101 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| Electrical Properties | |
| (For Engineering purposes only) | |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 39 pF/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 70 pF/ft @1 kHz, Nominal |
| 4) Inductance | 0.19 μH/ft, Nominal |
| 5) Conductor DCR | 10.2 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 2.6 Ω/1000ft @20°C, Nominal |

Other

| Packaging | Flange x Traverse x Barrel (inches) |
|-------------------------------------|---|
| a) 1000 FT | 18 x 14.25 x 8 Continuous length |
| b) 500 FT | 13.5 x 10 x 4 Continuous length |
| c) 100 FT | 12 x 5.94 x 5 Continuous length |
| d) Bulk(Made-to-order) | |
| | <i>[Spool dimensions may vary slightly]</i> |
| Notes: | |
| a) Oil Resistant Jacket (7d @ 60C). | |

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: 5160C

5160C, 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

| 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 3/31/2025

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