



Customer Specification

PART NO. M9500010

Construction

| | | Diameters (In) | | | |
|----------------|-------------|---|-------|--------------------|-------|
| 1) Component 1 | | 1 X 1 PAIR | | | |
| a) Conductor | | 20 (7/.0121) AWG Bare Copper | | 0.036 | |
| b) Insulation | | 0.016" Wall, Nom. PVC | | 0.068 | |
| (1) Color(s) | | | | | |
| Pair | Color | Pair | Color | Pair | Color |
| 1 | BLACK-WHITE | | | | |
| c) Pair | | 2/Cond Cabled Together | | | |
| (1) Twists: | | 6.0 Twists/foot (min) | | | |
| (2) Core Wrap | | Clear Mylar Tape, 25% Overlap, Min. | | | |
| 2) Jacket | | 0.038" Wall, Nom.,PVC | | 0.215 (0.225 Max.) | |
| a) Color(s) | | BLACK | | | |
| b) Ripcord | | 1 End 810 Denier Nylon | | | |
| c) Print | | ALPHA WIRE-* P/N M9500010 1PR 20 AWG EXXXXX (UL) TYPE PLTC/ITC 105C SUN RES OR CL3 105C OR C(UL) CMG 105C FT4 CE ROHS * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i> | | | |

Applicable Specifications

| | | |
|----------------------|----------------|-------|
| 1) UL | ITC | 105°C |
| | SUN RES | |
| | PLTC | 105°C |
| | CL3 | 105°C |
| 2) CSA International | C(UL) TYPE CMG | 105°C |

| | | |
|--------|-------------------------------------|--|
| | FT4 | |
| 3) 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 | -20 to 105°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 16.1 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| Electrical Properties (For Engineering purposes only) | |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Mutual Capacitance | 27 pF/ft @1 kHz, Nominal |
| 3) Characteristic Impedance | 79 Ω |
| 4) Inductance | 0.19 μH/ft, Nominal |
| 5) Conductor DCR | 10.5 Ω/1000ft @20°C, Nominal |

Other

| | |
|------------------------|-------------------------------------|
| Packaging | Flange x Traverse x Barrel (inches) |
| a) 1000 FT | 12 x 10.5 x 5 Continuous length |
| b) 500 FT | 12 x 5.94 x 5 Continuous length |
| c) 100 FT | 6.5 x 4 x 2.5 Continuous length |
| d) Bulk(Made-to-order) | |

| | |
|--|--------------------------------------|
| | [Spool dimensions may vary slightly] |
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www.alphawire.com

Alpha Wire | 1320 City Center Drive, Suite 100, Carmel, IN 46032

Tel: 1-800-52 ALPHA (25742)

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M9500010

M9500010, RoHS-Compliant Commencing With 1/1/2006 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above 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

8/4/2023

Alpha Wire

2200 US Highway 27 South

Richmond, IN 47374

Tel: 1-908-925-8000