

Customer Specification PART NO. M4785

Construction

| | | | | Diameters (In |) | |
|-------------------|-----------|---|---|---------------|--------------------|--|
| 1) Component 1 | | 2 X 1 PAIR | 2 X 1 PAIR | | | |
| a) Conductor | | 20 (7/28) AWG | 20 (7/28) AWG TC | | 0.038 | |
| b) Insulation | | 0.016" Wall, N | 0.016" Wall, Nom. PVC | | 0.070 | |
| (1) Color Code | | Alpha Wire Co | Alpha Wire Color Code A | | | |
| Pair | Color | Pair | Color | Pair | Color | |
| 1 | BLACK-RED | 2 | BLACK-WHITE | | | |
| c) Pair | | 2/Cond Cabled | 2/Cond Cabled Together | | | |
| (1) Twists: | | 6.0 Twists/foot | 6.0 Twists/foot (min) | | | |
| 2) Cable Assembly | | 2 Components | 2 Components Cabled | | | |
| a) Twists: | | 3.7 Twists/foot | 3.7 Twists/foot (min) | | | |
| b) Core Wrap | | Clear Mylar Ta | Clear Mylar Tape, 25% Overlap, Min. | | | |
| 3) Shield: | | Alum/Mylar Ta | pe, 25% Overlap, Min. | | | |
| a) Foil Direction | | Foil Facing In | Foil Facing In | | | |
| b) Drain Wire | | 20 (7/28) AWG | 20 (7/28) AWG TC | | | |
| 4) Jacket | | 0.032" Wall, N | 0.032" Wall, Nom.,PVC | | 0.301 (0.315 Max.) | |
| a) Color(s) | | SLATE | SLATE | | | |
| b) Ripcord | | 1 End 810 Der | 1 End 810 Denier Nylon | | | |
| c) Print | | EXXXXXX SHI AWM 2464 CE * = Factory Coo | ALPHA WIRE-* P/N M4785 2PR 20 AWG EXXXXX SHIELDED 75C CMG (UL) C(UL) OR AWM 2464 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.] | | | |

Applicable Specifications

| СМG | 75°C |
|-------------------------------------|---|
| AWM/STYLE 2464 | 80°C / 300 V _{RMS} |
| C(UL) TYPE CMG | 75°C |
| FT4 | |
| EU Low Voltage Directive 2006/95/EC | |
| | AWM/STYLE 2464 C(UL) TYPE CMG FT4 |

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. | | | |
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Properties

| Physical & Mechanical Properties | | | |
|----------------------------------|---------------------------------|-----------------------------|--|
| 1) Temperature Range | -20 to 80°C | | |
| 2) Bend Radius | 10X Cable Diameter | | |
| 3) Pull Tension | 44 Lbs, Maximum | | |
| Electrical Properties | (For Engineering purposes only) | | |
| 1) Voltage Rating | 300 V _{RMS} | | |
| 2) Mutual Capacitance | 39 pf/ft @1 kHz, Nominal | | |
| 3) Ground Capacitance | 70 pf/ft @1 kHz, Nominal | | |
| 4) Characteristic Impedance | 55 Ω | | |
| 5) Inductance | 0.19 µH/ft, Nominal | | |
| 6) Conductor DCR | 10.3 Ω/1000ft @20°C, Nominal | | |
| 7) OA Shield DCR | 8.2 Ω/1000ft @20°C, Nominal | 8.2 Ω/1000ft @20°C, Nominal | |

<u>Other</u>

| Packaging | Flange x Traverse x Barrel (inches) | |
|------------------------|--------------------------------------|--|
| a) 1000 FT | 16 x 11 x 8 Continuous length | |
| b) 500 FT | 12 x 10 x 5 Continuous length | |
| c) 100 FT | 12 x 4.5 x 3.5 Continuous length | |
| d) Bulk(Made-to-order) | | |
| | [Spool dimensions may vary slightly] | |
| | | |

www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742) Although Alpha Wire ("Alpha") makes every reasonable effort to ensure their accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M4785

M4785, RoHS-Compliant Commencing With 1/1/2006 Production

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, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. 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 11364-2006.

| 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) |

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

5/14/2013