

Customer Specification

PART NO. XM1804LCY

Construction

| | | | | | | | | |
|---------------------|--------------|------|------------|------|-------|--|--|----------------|
| | | | | | | Diameters (In) | | |
| 1) Component 1 | | | | | | 4 X 1 COND | | |
| a) Conductor | | | | | | 18 (41/34) AWG Bare Copper | | 0.047 |
| b) Insulation | | | | | | 0.016" Wall, Nom. PVC/ 0.005" Wall NYLON | | 0.089 |
| (1) Print | | | | | | ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED | | |
| (2) Color Code | | | | | | Alpha Wire Color Code LX | | |
| Cond | Color | Cond | Color | Cond | Color | | | |
| 1 | GREEN/YELLOW | 3 | DK. BLUE#2 | | | | | |
| 2 | DK. BLUE#1 | 4 | DK. BLUE#3 | | | | | |
| 2) Cable Assembly | | | | | | 4 Components Cabled | | |
| a) Twists: | | | | | | 6.0 Twists/foot (min) | | |
| b) Orientation: | | | | | | Components to be arranged from OUTSIDE LAYER to INSIDE LAYER | | |
| c) Core Wrap | | | | | | REMAI Tape, 25% Overlap, Min. | | |
| 3) Shield | | | | | | Tinned Copper BRAID Shield,85% Coverage, Min. | | |
| 4) Jacket | | | | | | 0.050" Wall, Nom.,PVC | | 0.361+/- 0.019 |
| a) Color(s) | | | | | | BLACK | | |
| b) Jacket Separator | | | | | | Tissue Tape, 25% Overlap, Min. | | |
| c) Print | | | | | | ALPHA WIRE-* P/N XM1804LCY 4C 18 AWG (0.825mm2) SERIES XM (UL) WTTC 90C WET/DRY 1000V OR (UL) TC-ER 90C WET/DRY 600V SUN RES DIR BUR OIL RES I OR MTW 18 AWG OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code | | |

Applicable Specifications

| Physical & Mechanical Properties | |
|----------------------------------|---|
| 1) Temperature Range | -30 to 90°C(static), -5 to 90°C (dynamic) |
| 2) Bend Radius | 10X Cable Diameter(static), 10X Cable Diameter(dynamic) |
| 3) Pull Tension | 58 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| Electrical Properties | |
| (For Engineering purposes only) | |
| 1) Voltage Rating | 600/1000 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 | 6.6 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 3.3 Ω/1000ft @20°C, Nominal |
| | |

Other

| Packaging | Flange x Traverse x Barrel (inches) |
|---|-------------------------------------|
| a) Bulk(Made-to-order) | |
| Notes: | |
| a) Suitable for constant flexing where cycle count will be less than 12,000,000 cycles. | |
| | |

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: XM1804LCY

XM1804LCY, RoHS-Compliant Commencing With 3/16/2010 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 8/10/2025

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