

Customer Specification

PART NO. XM1849RCY

Construction

| | | | | | | | | |
|---------------------|--------------|------|--------|------|--------|---|--|----------------|
| | | | | | | Diameters (In) | | |
| 1) Component 1 | | | | | | 49 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 RW | | |
| Cond | Color | Cond | Color | Cond | Color | | | |
| 1 | GREEN/YELLOW | 18 | RED#17 | 35 | RED#34 | | | |
| 2 | RED#1 | 19 | RED#18 | 36 | RED#35 | | | |
| 3 | WHITE/RED | 20 | RED#19 | 37 | RED#36 | | | |
| 4 | RED#3 | 21 | RED#20 | 38 | RED#37 | | | |
| 5 | RED#4 | 22 | RED#21 | 39 | RED#38 | | | |
| 6 | RED#5 | 23 | RED#22 | 40 | RED#39 | | | |
| 7 | RED#6 | 24 | RED#23 | 41 | RED#40 | | | |
| 8 | RED#7 | 25 | RED#24 | 42 | RED#41 | | | |
| 9 | RED#8 | 26 | RED#25 | 43 | RED#42 | | | |
| 10 | RED#9 | 27 | RED#26 | 44 | RED#43 | | | |
| 11 | RED#10 | 28 | RED#27 | 45 | RED#44 | | | |
| 12 | RED#11 | 29 | RED#28 | 46 | RED#45 | | | |
| 13 | RED#12 | 30 | RED#29 | 47 | RED#46 | | | |
| 14 | RED#13 | 31 | RED#30 | 48 | RED#47 | | | |
| 15 | RED#14 | 32 | RED#31 | 49 | RED#48 | | | |
| 16 | RED#15 | 33 | RED#32 | | | | | |
| 17 | RED#16 | 34 | RED#33 | | | | | |
| 2) Cable Assembly | | | | | | 49 Components Cabled | | |
| a) Twists: | | | | | | 1.5 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 | | | | | | 0.085" Wall, Nom.,PVC | | 1.006+/- 0.051 |
| a) Color(s) | | | | | | BLACK | | |
| b) Jacket Separator | | | | | | Tissue Tape, 25% Overlap, Min. | | |
| c) Print | | | | | | ALPHA WIRE-* P/N XM1849RCY 49C 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 | 652 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 | 6.8 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 1.2 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. | |
| | |

www.alphawire.com

Alpha Wire
2200 US Highway 27 South
Richmond, IN 47374

Tel: 1-800-52 ALPHA

Although Alpha Wire (“Alpha”) makes every reasonable effort to ensure there 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.

Alpha provides the information and specifications herein on an “AS IS” basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.



EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: XM1849RCY

XM1849RCY, 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) |

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:

Dave Watson, Director of Engineering 8/23/2025

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