

Customer Specification

PART NO. 87305CY

Construction

| | | Diameters (In) | | | |
|---------------------|--------------|--|---------|--------------------|---------|
| 1) Component 1 | | 5 X 1 COND | | | |
| a) Conductor | | 18 (19/30) AWG BC | | | |
| b) Insulation | | 0.016" Wall, Nom. Hytrel | | 0.082 | |
| (1) Print | | ALPHA NUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED | | | |
| (2) Color Code | | Alpha Wire Company Color Code KX | | | |
| Cond | Color | Cond | Color | Cond | Color |
| 1 | GREEN/YELLOW | 3 | BLACK#2 | 5 | BLACK#4 |
| 2 | BLACK#1 | 4 | BLACK#3 | | |
| 2) Cable Assembly | | 5 Components Cabled | | | |
| a) Twists: | | 2.1 Twists/foot (min) | | | |
| b) Core Wrap | | Teflon(skived) Tape, 25% Overlap, Min. | | | |
| 3) Shield | | TC SPIRAL Shield, 90% Coverage, Min. | | | |
| 4) Jacket | | 0.050" Wall, Nom., Polyurethane (PU) | | 0.348 (0.363 Max.) | |
| a) Color(s) | | BLACK | | | |
| b) Jacket Separator | | Teflon(skived) Tape, 25% Overlap, Min. | | | |
| c) Print | | ALPHA WIRE-* P/N 87305CY XTRAGUARD FLEXIBLE TORSION CABLE XTREME PERFORMANCE FOR XTREME ENVIRONMENTS - RU AWM 20234 --- LLXXXXX CSA AWM IA/B IIA/B 80C 600VOLTS FT1 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.] | | | |

Applicable Specifications

| | | | |
|----------------------|--|-----------------------------------|-----------------------------|
| 1) UL | | | |
| a) Component 1 | | AWM/STYLE 10162 | 90°C / 600 V _{RMS} |
| b) Overall | | AWM/STYLE 20234 | 80°C / 600 V _{RMS} |
| | | VW-1 | |
| 2) CSA International | | AWM I/II A/B | 80°C / 600 V _{RMS} |
| | | FT1 | |
| 3) CE: | | LVD 73/23/EEC Amendment 93/68/EEC | |

Environmental

| | |
|-----------------------------------|--|
| 1) EU Directive 2002/95/EC(RoHS): | |
| | All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture. |
| 2) California Proposition 65: | |
| | The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65. |

Properties

| | |
|---|---|
| Physical & Mechanical Properties | |
| 1) Temperature Range | -30 to 80°C(static), -10 to 80°C (dynamic) |
| 2) Bend Radius | 10X Cable Diameter(static), 15X Cable Diameter(dynamic) |
| 3) Pull Tension | 80 Lbs, Maximum |
| Electrical Properties (For Engineering purposes only) | |
| 1) Voltage Rating | 600 V _{RMS} |
| 2) Capacitance | 42 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 76 pf/ft @1 kHz, Nominal |
| 4) Inductance | 0.17 µH/ft, Nominal |
| 5) Conductor DCR | 5.6 /1000ft @20°C, Nominal |
| 6) OA Shield DCR | 4.7 /1000ft @20°C, Nominal |

Other

| | |
|------------------------|--|
| 1) Packaging | |
| a) Bulk(Made-to-order) | |

www.alphawire.com

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742)

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:87305CY

87305CY , RoHS-Compliant Commencing With11/1/2004Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, 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 these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

| Substance | Maximum Control Value |
|---|------------------------------|
| Lead | 0.1% by weight (1000 ppm) |
| Mercury | 0.1% by weight (1000 ppm) |
| Cadmium | 0.1% 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) |

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

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