

Customer Specification

PART NO. XM1805R

Construction

| | | | | | | Diameters (In) | | |
|-------------------|--------------|------|-------|------|-------|--|--|----------------|
| 1) Component 1 | | | | | | 5 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 RX | | |
| Cond | Color | Cond | Color | Cond | Color | | | |
| 1 | GREEN/YELLOW | 3 | RED#2 | 5 | RED#4 | | | |
| 2 | RED#1 | 4 | RED#3 | | | | | |
| 2) Cable Assembly | | | | | | 5 Components Cabled | | |
| a) Twists: | | | | | | 5.3 Twists/foot (min) | | |
| b) Orientation: | | | | | | Components to be arranged from OUTSIDE LAYER to INSIDE LAYER | | |
| c) Core Wrap | | | | | | REMAI Tape, 25% Overlap, Min. | | |
| 3) Jacket | | | | | | 0.050" Wall, Nom.,PVC | | 0.360+/- 0.020 |
| a) Color(s) | | | | | | BLACK | | |
| b) Print | | | | | | ALPHA WIRE-* P/N XM1805R 5C 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

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|----------------------|-------------------------------------|---|
| 1) UL | | |
| a) Component 1 | Unlisted Conductor | 90°C Dry / 90°C Wet / 600 V _{RMS} |
| b) Overall | MTW | 90°C Dry / 60°C Wet / 600 V _{RMS} |
| | TC | 90°C Dry / 90°C Wet / 600 V _{RMS} |
| | EXPOSED RUN | |
| | SUN RES | |
| | OIL RES I | |
| | WTTC | 90°C Dry / 90°C Wet / 1000 V _{RMS} |
| 2) CSA International | C(RU) AWM I/II A/B | 90°C / 600 V _{RMS} |
| | FT4 | |
| 3) Other | Conductors ASTM Class M | |
| | Conductors IEC Class 6 on AWG size | |
| 4) 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. |
| 3) California Proposition 65: | |
| | This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information. |

Properties

| Physical & Mechanical Properties | |
|--|---|
| 1) Temperature Range | -30 to 90°C(static), -5 to 90°C (dynamic) |
| 2) Bend Radius | 6X Cable Diameter(static), 8X Cable Diameter(dynamic) |
| 3) Pull Tension | 64 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |
| Electrical Properties (For Engineering purposes only) | |
| 1) Voltage Rating | 600/1000 V _{RMS} |
| 2) Capacitance | 26 pF/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Inductance | 0.19 μH/ft, Nominal |
| 4) Conductor DCR | 6.7 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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