

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: 77103
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Issue: 4
Issue Date: 1/15/2013
Effective Date: 1/15/2013

A. Construction

Diameters (In)

- | | | |
|----------------|-------------------------|-------|
| 1) Component 1 | 3 X 1 COND | |
| a) Conductor | 24 (7/32) AWG TC | 0.024 |
| b) Insulation | 0.010" Wall, Nom. MPPE | 0.044 |
| (1) Color Code | Alpha Wire Color Code E | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	BROWN	3	RED

- | | | |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 2) Cable Assembly | 3 Components Cabled | |
| a) Twists: | 12.0 Twists/foot (min) | |
| b) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 3) Shield: | Alum/Mylar Tape, 25% Overlap, Min. | |
| a) Foil Direction | Foil Facing In | |
| b) Drain Wire | 24 (7/32) AWG TC | |
| 4) Jacket | 0.032" Wall, Nom., MPPE | 0.167 (0.177 Max.) |
| a) Color(s) | SLATE | |
| b) Ripcord | 1 End 810 Denier Nylon | |
| c) Print | ALPHA WIRE-* P/N 77103 3C 24 AWG
ECOCABLE(TM) RU AWM 21510 105C 600V VW-1
C(RU) AWM I/II A/B FT1 600V 105C
CE ROHS (SEQ FOOTAGE)
* = Factory Code | |

B. Applicable Specifications

- | | | |
|----------------------|-------------------------------------|------------------------------|
| 1) UL | | |
| a) Component 1 | AWM/STYLE 11231 | 105°C / 600 V _{RMS} |
| b) Overall | AWM/STYLE 21510 | 105°C / 600 V _{RMS} |
| | VW-1 | |
| 2) CSA International | C(RU) AWM I/II A/B FT1 | 105°C / 600 V _{RMS} |
| 3) CE: | EU Low Voltage Directive 2006/95/EC | |

C. Environmental Compliance

- | | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |

D. Physical & Mechanical Properties

- | | |
|----------------------|-------------------|
| 1) Temperature Range | -50 to 105°C |
| 2) Bend Radius | 6X Cable Diameter |
| 3) Pull Tension | 14.1 Lbs, Maximum |

E. Electrical Properties

- | | |
|-----------------------|---------------------------------------------------|
| | (For Engineering purposes only) |
| 1) Voltage Rating | 600 V _{RMS} |
| 2) Capacitance | 21.9 pf/ft @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 39 pf/ft @1 kHz, Nominal |
| 4) Inductance | 0.19 µH/ft, Nominal |
| 5) Conductor DCR | 26 Ω/1000ft @20°C, Nominal |
| 6) OA Shield DCR | 19.6 Ω/1000ft @20°C, Nominal |

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F. Other

- | | |
|--------------|---------------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) 1000 FT | 12 x 6 x 3.5 Continuous length |
| b) 100 FT | 6.5 x 2 x 1.9 Continuous length |
| | <i>[Spool dimensions may vary slightly]</i> |

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