

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 25481
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Issue: 13
Issue Date: 12/20/2012
Effective Date: 1/4/2013

A. Construction

Diameters (In)

- | | | |
|----------------|-----------------------------------|-------|
| 1) Component 1 | 1 X 1 PAIR | |
| a) Conductor | 22 (7/30) AWG TC | 0.030 |
| b) Insulation | 0.010" Wall, Nom. PVC, Semi Rigid | 0.050 |
| (1) Color Code | Alpha Wire Color Code B | |

Pair	Color	Pair	Color	Pair	Color
1	WHITE-BLACK				

- | | | |
|-------------------|--|--------------------|
| c) Cabling | 2 COND Cabled | |
| (1) Twists: | 12.0 Twists/foot (min) | |
| (2) Core Wrap | Nonwoven Polyester Tape, 25% Overlap, Min. | |
| 2) Shield: | Alum/Mylar Tape, 25% Overlap, Min. | |
| a) Foil Direction | Foil Facing In | |
| b) Drain Wire | 22 (7/30) AWG TC | |
| 3) Jacket | 0.032" Wall, Nom., Polyurethane (TPU) | 0.172 (0.182 Max.) |
| a) Color(s) | Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White | |
| b) Ripcord | 1 End 810 Denier Nylon | |
| c) Print | ALPHA WIRE-* P/N 25481
XTRAGUARD(R) 2 RU AWM 20668 VW-1 --- LLXXXXXX CSA
AWM I/II A/B 90C 300 VOLTS FT1 CE
ROHS (SEQ FOOTAGE)
* = Factory Code | |

[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

B. Applicable Specifications

- | | | |
|----------------------|-------------------------------------|------------------------------|
| 1) UL | | |
| a) Component 1 | AWM/STYLE 10002 | 105°C / 300 V _{RMS} |
| b) Overall | AWM/STYLE 20668
VW-1 | 90°C / 300 V _{RMS} |
| 2) CSA International | AWM I/II A/B | 90°C / 300 V _{RMS} |
| | FT1 | |
| 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 | -30 to 90°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 16.5 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |

E. Electrical Properties (For Engineering purposes only)

- | | |
|-----------------------------|---------------------------|
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Mutual Capacitance | 39 pf/ft @ 1 kHz, Nominal |
| 3) Ground Capacitance | 70 pf/ft @ 1 kHz, Nominal |
| 4) Characteristic Impedance | 48 Ω |

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|------------------|--------------------------------------|
| 5) Inductance | 0.18 μ H/ft, Nominal |
| 6) Conductor DCR | 16.2 Ω /1000ft @20°C, Nominal |
| 7) OA Shield DCR | 15.5 Ω /1000ft @20°C, Nominal |

F. Other

- | | |
|------------------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) Bulk(Made-to-order) | |

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