

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: B955044
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Issue: 1
Issue Date: 8/24/2010
Effective Date: 10/19/2010

A. Construction

Diameters (mm)

- | | | |
|----------------|-------------------------|------|
| 1) Component 1 | 4 X 1 COND | |
| a) Conductor | 20 (7/28) AWG TC | 0.97 |
| b) Insulation | 0.41 Wall, Nom. PVC | 1.78 |
| (1) Color Code | Alpha Wire Color Code D | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	WHITE		
2	RED	4	GREEN		

- | | | |
|-------------------|---|------------------|
| 2) Cable Assembly | 4 Components Cabled | |
| a) Twists: | 19.7 Twists/meter (min) | |
| b) Core Wrap | Clear Mylar Tape, 25% Overlap, Min. | |
| 3) Shield: | A/P/A Tape, 25% Overlap, Min. | |
| a) Drain Wire | 20 (7/28) AWG TC | |
| b) Braid | TC, 70% Coverage, Min. | |
| 4) Jacket | 0.81 Wall, Nom., PVC | 6.73 (7.02 Max.) |
| a) Color(s) | GREY | |
| b) Ripcord | 1 End 810 Denier Nylon | |
| c) Print | ALPHA WIRE-* P/N B955044 | |
| | 0.56MM2 (20AWG) (UL) TYPE CM 105C OR AWM 2464 | |
| | VW-1 CE ROHS (SEQ METERS) | |
| | * = Factory Code | |

B. Applicable Specifications

- | | | |
|----------------|-----------------------------------|------------------------------|
| 1) UL | | |
| a) Component 1 | AWM/STYLE 1569 | 105°C / 300 V _{RMS} |
| b) Overall | AWM/STYLE 2464 | 80°C / 300 V _{RMS} |
| | CM | 105°C |
| | VW-1 | |
| 2) IEC | EN 60332-1 Flame Behavior | |
| | EN 60332-2 Flame Behavior | |
| 3) CE: | LVD 73/23/EEC Amendment 93/68/EEC | |

C. Environmental Compliance

- 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.
- REACH Regulation (EC 1907/2006):
 This product does not contain any of the substances listed on the European Union REACH Substance of Very High Concern (SVHC) candidate list, dated 30 March 2010, in excess of a concentration of 0.1% weight/weight.

D. Physical & Mechanical Properties

- | | |
|------------------------|--------------------|
| 1) Temperature Range | -30 to 105°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 48 Lbs, Maximum |
| 4) Sunlight Resistance | Yes |

E. Electrical Properties

- | | |
|---------------------------------|--|
| (For Engineering purposes only) | |
| 1) Voltage Rating | 300 V _{RMS} |
| 2) Capacitance | 144.32 pf/m @1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 259.12 pf/m @1 kHz, Nominal |
| 4) Inductance | 0.6232 µH/m, Nominal |
| 5) Conductor DCR | 33.456 Ω/Km @20°C, Nominal |
| 6) OA Shield DCR | 9.512 Ω/Km @20°C, Nominal |

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F. Other

- | | |
|--------------|---|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) 3280 FT | 24 x 14 x 12 Continuous length |
| b) 1640 FT | 18 x 12 x 8 Continuous length |
| c) 328 FT | 12 x 4.5 x 3.5 Continuous length |
| d) 164 FT | 10 x 4 x 3.5 Continuous length |
| | <i>[Spool dimensions may vary slightly]</i> |

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