

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: M4252
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Issue: 3
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A. Construction

- | | | <u>Diameters (In)</u> |
|----------------|------------------------|-----------------------|
| 1) Component 1 | 1 X 1 COND | |
| a) Conductor | 30 (7/38) AWG SCW | 0.012 |
| b) Insulation | 0.011" Wall, Nom. PTFE | 0.034 |
| (1) Color(s) | | |

Cond	Color	Cond	Color
1	CLEAR		

- | | | |
|-------------|-------------------------------------|----------------|
| 2) Shield | SPC BRAID Shield,94% Coverage, Min. | |
| 3) Jacket | 0.010" Wall, Nom.,FEP | 0.071+/- 0.004 |
| a) Color(s) | NATURAL TAN | |

B. Applicable Specifications

- | | | |
|-------------|--------------------|------------------------------|
| 1) Military | MIL-C-17/RG 178B/U | 200°C / 750 V _{RMS} |
|-------------|--------------------|------------------------------|

C. Environmental Compliance

- 1) EU Directive 2002/95/EC(RoHS):
All materials used in the manufacture of this part are in compliance with European 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) 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 -55 to 200°C
- 2) Bend Radius 10X Cable Diameter
- 3) Pull Tension 2.15 Lbs, Maximum

E. Electrical Properties

- (For Engineering purposes only)
- 1) Voltage Rating 750 V_{RMS}
 - 2) Characteristic Impedance 50 Ω +/- 2
 - 3) Inductance 0.072 μH/ft, Nominal
 - 4) Ground Capacitance 29.3 pf/ft @1 kHz, Nominal
 - 5) Velocity of Propagation 70 %
 - 6) Conductor DCR 241 Ω/1000ft @20°C, Nominal
 - 7) OA Shield DCR 14.6 Ω/1000ft @20°C, Nominal
 - 8) Voltage Withstanding 2 kV, Minimum
 - 9) Corona Extinction 1 kV, Minimum
 - 10) Attenuation, Max dB/100ft 29 @ 400 MHz

F. Other

- 1) Packaging Flange x Traverse x Barrel (inches)
 - a) 1000 FT 6.5 x 4 x 2.5 Max. 3 separate pieces; Min length/piece 100 FT.
 - b) 500 FT 6.5 x 2 x 1.9 Max. 2 separate pieces; Min length/piece 100 FT.
 - c) 100 FT 2.75 x 2 x 1.125 Continuous length
 - d) Bulk(Made-to-order)

[Spool dimensions may vary slightly]

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