

ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: M1712
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Issue: 4
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A. Construction

Diameters (In)

- | | | |
|----------------|-------------------------|-------|
| 1) Component 1 | 12 X 1 COND | |
| a) Conductor | 18 (19/30) AWG TC | 0.050 |
| b) Insulation | 0.016" Wall, Nom. PVC | 0.082 |
| (1) Color Code | Alpha Wire Color Code F | |

Cond	Color	Cond	Color	Cond	Color
1	BLACK	5	ORANGE	9	GREEN/BLACK
2	WHITE	6	BLUE	10	ORANGE/BLACK
3	RED	7	WHITE/BLACK	11	BLUE/BLACK
4	GREEN	8	RED/BLACK	12	BLACK/WHITE

- | | | |
|-------------------|--|--------------------|
| 2) Cable Assembly | 12 Components Cabled | |
| a) Twists: | 2.4 Twists/foot (min) | |
| b) Core Wrap | Clear Mylar Tape, 25% Overlap, Min. | |
| 3) Shield | TC BRAID Shield, 90% Coverage, Min. | |
| 4) Jacket | 0.035" Wall, Nom., PVC | 0.442 (0.459 Max.) |
| a) Color(s) | SLATE | |
| b) Print | ALPHA WIRE-* P/N M1712 12C 18 AWG
CE ROHS
* = Factory Code | |

B. Applicable Specifications

- | | |
|----------------|-------------------------------------|
| 1) UL | VW-1 |
| 2) Military | |
| a) Component 1 | MIL-W-16878/Type C |
| 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 . |

D. Physical & Mechanical Properties

- | | |
|----------------------|--------------------|
| 1) Temperature Range | -55 to 105°C |
| 2) Bend Radius | 10X Cable Diameter |
| 3) Pull Tension | 193 Lbs, Maximum |

E. Electrical Properties

- | | |
|---------------------------------|--|
| (For Engineering purposes only) | |
| 1) Voltage Rating | 1000 V _{RMS} |
| 2) Capacitance | 53 pf/ft @ 1 kHz, Nominal Conductor to Conductor |
| 3) Ground Capacitance | 95 pf/ft @ 1 kHz, Nominal |
| 4) Inductance | 0.17 µH/ft, Nominal |
| 5) Conductor DCR | 6.1 Ω/1000ft @ 20°C, Nominal |
| 6) OA Shield DCR | 1.49 Ω/1000ft @ 20°C, Nominal |

F. Other

- | | |
|------------------------|-------------------------------------|
| 1) Packaging | Flange x Traverse x Barrel (inches) |
| a) 1000 FT | 24 x 14 x 12 Continuous length |
| b) 500 FT | 18 x 12 x 8 Continuous length |
| c) 100 FT | 12 x 10 x 5 Continuous length |
| d) Bulk(Made-to-order) | |

[Spool dimensions may vary slightly]

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