

ALPHA WIRE

CUSTOMER PRODUCT SPECIFICATION

Part Number: 518235
Page 1 of 2 Pages

Issue: 2
Issue Date: 10/11/2012
Effective Date: 11/20/2012

A. Construction

Diameters (In)

- 1) Component 1 1 X 1 CABLE
 a) Cable 75022 0.325
 (1) Color(s)

Element #	Color	Element #	Color	Element #	Color
1	BLACK				

- 2) Component 2 1 X 1 COND
 a) Conductor 22 (7/30) AWG TC 0.030
 b) Insulation 0.016" Wall, Nom. TPE 0.062
 (1) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	PURPLE				

- 3) Component 3 4 X 1 COND
 a) Conductor 16 (26/30) AWG TC 0.060
 b) Insulation 0.016" Wall, Nom. TPE 0.092
 (1) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	WHITE	3	BROWN		
2	BLACK	4	GREY		

- 4) Cable Assembly Component1 in center, Component2 and Component3 around
 a) Twists: 1.6 Twists/foot (min)
 b) Core Wrap Clear Mylar Tape, 25% Overlap, Min.
 5) Shield TC BRAID Shield, 90% Coverage, Min.
 a) Drain Wire 22 (7/30) AWG TC
 6) Jacket 0.055" Wall, Nom., TPE-C 0.656+/- 0.018
 a) Color(s) BLACK
 b) Jacket Separator Tissue Tape, 25% Overlap, Min.
 c) Print MILLER ELECTRIC MFG. CO., - APPLETON, WI USA
 d) Marker Tape For identification

B. Applicable Specifications

C. Environmental Compliance

- 1) 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.
- 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 -50 to 105°C
 2) Bend Radius 10X Cable Diameter
 3) Pull Tension 112 Lbs, Maximum

E. Electrical Properties

- (For Engineering purposes only)
 1) Voltage Rating 300 V_{RMS}
 2) Component 2
 a) Ground Capacitance 51 pf/ft @1 kHz, Nominal
 b) Inductance 0.06 µH/ft, Nominal
 c) Conductor DCR 16.5 Ω/1000ft @20°C, Nominal

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Handwritten signature and date: 11/20/12

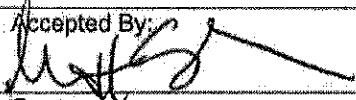
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- 3) Component 3
 - a) Capacitance 30 pf/ft @1 kHz, Nominal Conductor to Conductor
 - b) Ground Capacitance 54 pf/ft @1 kHz, Nominal
 - c) Inductance 0.17 μ H/ft, Nominal
 - d) Conductor DCR 4.4 Ω /1000ft @20°C, Nominal
- 4) OA Shield DCR 1.14 Ω /1000ft @20°C, Nominal
- F. Other
 - 1) Packaging Flange x Traverse x Barrel (inches)
 - a) Bulk(Made-to-order)
 - 2) Notes:
 - a) Component1 verified to TIA-568-C.2 Cat5e but not guaranteed after this composite cable completed.
 - b) Jacket printing: 1/4" or wider white stripe interrupted with "MILLERELECTRIC MFG. CO., - APPLETON, WI USA". Print is every 12".
 - c) Component2 and Component3 insulation are same as 518070's insulation - 039160.

This Design is custom, Made-To-Order & once accepted, the order is NON-CANCELLABLE & NON-RETURNABLE.

Accepted By: 	Date: 4/18/2014
Company: MILLER ELECTRIC	Title: LAB TECHNICIAN

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