ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Issue: 2 Part Number: 518235 Issue Date: 10/11/2012 Page 1 of 2 Pages **Effective Date:** 11/20/2012 Diameters (In) A. Construction 1 X 1 CABLE Component 1 0.325 a) Cable 75022 (1) Color(s) 1 X 1 COND Component 2 0.030 Conductor 22 (7/30) AWG TC 0.062 0.016" Wall, Nom. TPE b) Insulation (1) Color(s) Cord Color 4 X 1 COND Component 3 16 (26/30) AWG TC 0.060 a) Conductor 0.092 Insulation 0.016" Wall, Nom, TPE (1) Color(s) Component1 in center, Component2 and Component3 around Cable Assembly 1.6 Twists/foot (min) Twists: Core Wrap Clear Mylar Tape, 25% Overlap, Min. b) TC BRAID Shield,90% Coverage, Min. Shield 22 (7/30) AWG TC a) Drain Wire 0.055" Wall, Nom., TPE-C 0.656+/- 0.018 6) Jacket **BLACK** Color(s) a) Tissue Tape, 25% Overlap, Min. b) Jacket Separator MILLER ELECTRIC MFG. CO., - APPLETON, WI USA Print c) For identification d١ Marker Tape 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.

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

Temperature Range 1)

-50 to 105°C

Bend Radius 2)

10X Cable Diameter

3) Pull Tension 112 Lbs, Maximum

E. Electrical Properties

(For Engineering purposes only) 300 VRMS

Voltage Rating 1)

Component 2 **Ground Capacitance** a)

51 pf/ft @1 kHz, Nominal

0.06 uH/ft, Nominal

b) Inductance

16.5 Ω/1000ft @20°C, Nominal

Conductor DCR

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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 0.17 µH/ft, Nominal

c) Inductance d) Conductor DCR

4.4 Ω/1000ft @20°C, Nominal 1.14 Ω/1000ft @20°C, Nominal

4) OA Shield DCR

F. Other

1) Packaging

Flange x Traverse x Barrel (inches)

a) Bulk(Made-to-order)

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 Coponent3 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:	Title:
MILLE ELECTRIC	LAS TECHNICION

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