ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 2412C Issue: 8

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Effective Date: 7/21/2014

A. Construction <u>Diameters (In)</u>

1) Component 1 2 X 1 COND

a) Conductor 20 (7/28) AWG Tinned Copper 0.038 b) Insulation 0.016" Wall, Nom. FR HDPE 0.070

(1) Color Code Alpha Wire Color Code D

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	RED		

2) Cable Assembly 2 Components Cabled a) Twists: 6.0 Twists/foot (min)

Shield: Alum/Mylar Tape, 25% Overlap, Min.

a) Foil Direction Foil Facing Out

b) Drain Wire 20 (7/28) AWG Tinned Copper

4) Jacket 0.020" Wall, Nom., PVC 0.184 (0.194 Max.)

a) Color(s) SLATE

b) Print ALPHA WIRE-* P/N 2412C 2C 20 AWG

SHIELDED 75C (UL) TYPE CMG OR AWM 2092 ----

C(UL) CMG FT4 CE ROHS

* = Factory Code

[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

B. Applicable Specifications

1) UL AWM/STYLE 2092 60°C / 300 V_{RMS}

CMG 75°C

VW-1

CSA International C(UL) TYPE CMG 75°C

FT4

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.

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 -20 to 75°C

2) Bend Radius3) Pull Tension10X Cable Diameter26 Lbs, Maximum

E. Electrical Properties (For Engineering purposes only)

1) Voltage Rating 300 V_{RMS}

Capacitance
 26 pf/ft @1 kHz, Nominal Conductor to Conductor

3) Ground Capacitance 47 pf/ft @1 kHz, Nominal

Characteristic Impedance 63 Ω

5) Inductance 0.19 µH/ft, Nominal

6) Conductor DCR
 7) OA Shield DCR
 10.2 Ω/1000ft @20°C, Nominal
 8.2 Ω/1000ft @20°C, Nominal

F. Other

1) Packaging Flange x Traverse x Barrel (inches)

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a) 1000 FT 12 x 6 x 3.5 Continuous length
b) BOX 1000FT 9-1/2 EASY REEL: Continuous length
c) BOX 500FT 7-5/8 EASY REEL: Continuous length
d) 500 FT 12 x 4.5 x 3.5 Continuous length
e) 100 FT 6.5 x 4 x 2.5 Continuous length
[Spool dimensions may vary slightly]

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