ALPHA WIRE CUSTOMER PRODUCT SPECIFICATION

Part Number: 80158 Issue:

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A. Construction Diameters (In)

3 X 1 COND 1) Component 1

Conductor 12 (168(7x24)/34) AWG Tinned Copper 0.104 0.015" Wall, Nom. MPPE Insulation 0.134ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND (1) Print

INVERTED

Alpha Wire Color Code KX (2) Color Code

Cond	Color	Cond	Color	Cond	Color
1	GREEN/YELLOW	2	BLACK#1	3	BLACK#2

Cable Assembly 3 Components Cabled a) Twists: 3.4 Twists/foot (min)

Nonwoven Polyester Tape, 25% Overlap, Min. Core Wrap b) Shield Tinned Copper BRAID Shield,85% Coverage, Min.

0.032" Wall, Nom., Polyurethane, Zero Halogen (ZH) 0.385+/- 0.012 Jacket

a) Color(s) SLATE

Jacket Separator Tissue Tape, 25% Overlap, Min. b) Print ALPHA WIRE-* P/N 80158 3C 12 AWG

> RU AWM STYLE 21959 90C 600V SUN RES 60C OIL OR CRU AWM I/II A/B 90C 600V FT2 --- IEC EN 60332-1/2

CE ROHS (SEQ FOOTAGE)

* = Factory Code

B. Applicable Specifications

1) UL

105°C / 600 V_{RMS} Component 1 AWM/STYLE 11231 a) Overall AWM/STYLE 21959 90°C / 600 V_{RMS} b)

60C OIL SUN RES

CSA International C(RU) AWM I/II A/B 90°C / 600 V_{RMS}

FT2

IEC

EN 60228 Conductors, Class 6 a) Component 1 EN 60754-1 Acid Gas Generation b) Overall EN 60754-2 Acid Gas Generation EN 60332-1 Flame Behavior EN 60332-2 Flame Behavior

4) CF: EU Low Voltage Directive 2006/95/EC

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.

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 -50 to 90°C(static), -40 to 80°C (dynamic) 1)

Bend Radius 4X Cable Diameter(static), 6X Cable Diameter(dynamic) 2)

Pull Tension 166 Lbs. Maximum

Sunlight Resistance Yes

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E. Electrical Properties (For Engineering purposes only)

Voltage Rating
 Capacitance
 500 V_{RMS}
 Capacitance
 bf/ft @1 kHz, Nominal Conductor to Conductor

3) Ground Capacitance 63 pf/ft @1 kHz, Nominal 1nductance 0.15 µH/ft, Nominal

5) Conductor DCR
 6) OA Shield DCR
 1.76 Ω/1000ft @20°C, Nominal
 2.25 Ω/1000ft @20°C, Nominal

F. Other

1) Packaging Flange x Traverse x Barrel (inches) a) 100 FT 12 x 10 x 5 Continuous length

) Bulk(Made-to-order) [Spool dimensions may vary slightly]

[Opool difficusions may vary slightly]

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