

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Number: 18-2387RB
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Issue: 1
Issue Date: 1/8/2019
Effective Date: 3/5/2019

A. Construction

Diameters (In)

- 1) Component 1 1 X 1 PAIR
- a) Conductor 24 (10/34) AWG Tinned Copper 0.024
- b) Insulation 0.010" Wall, Nom. PVC, Semi Rigid 0.044
- (1) Color(s)

Pair	Color	Pair	Color	Pair	Color
1	WHITE-GREEN				

- c) Pair 2/Cond Cabled Together
- (1) Twists: 9.6 Twists/foot (min)
- Individually Applied:
- d) Shield: Alum/Mylar Tape, 25% Overlap, Min.
- (1) Foil Direction Foil Facing In
- (2) Drain Wire 24 (7/32) AWG Tinned Copper

- 2) Component 2 2 X 1 COND
- a) Conductor 20 (26/34) AWG Tinned Copper 0.038
- b) Insulation 0.010" Wall, Nom. PVC, Semi Rigid 0.058
- (1) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	RED		

- 3) Component 3 1 X 1 COND
- a) Conductor 24 (10/34) AWG Tinned Copper 0.024
- b) Insulation 0.010" Wall, Nom. PVC, Semi Rigid 0.044
- (1) Color(s)

Cond	Color	Cond	Color	Cond	Color
1	ORANGE				

- 4) Cable Assembly 4 Components Cabled
- a) Twists: 6.0 Twists/foot (min)
- b) Orientation: Components to be arranged from INSIDE LAYER to OUTSIDE LAYER
- c) Core Wrap Nonwoven Polyester Tape, 25% Overlap, Min.
- 5) Shield: Alum/Mylar Tape, 25% Overlap, Min.
- a) Foil Direction Foil Facing Out
- b) Drain Wire 26 (7/34) AWG Tinned Copper
- b) Double Serve 36 AWG Tinned Copper, 95% Coverage, Min.
- 6) Jacket 0.040" Wall, Nom., PVC 0.289+/- 0.013
- a) Color(s) BLACK
- b) Jacket Separator Tissue Tape, 25% Overlap, Min.
- c) Print ALPHA WIRE-* P/N 18-2387RB 1PR 24 AWG 2C 20 AWG 1C 24 AWG
(UL) 105C TYPE CM --- C(UL) CMG OR AWM 2661 105C
300V SUN RES 60C OIL --- LLXXXXXX CSA AWM I/II
A/B FT4 105C 300V CE ROHS (SEQ FOOTAGE)
- * = Factory Code
- [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]

B. Applicable Specifications

- 1) UL
- a) Component 1 AWM/STYLE 10002 105°C / 300 V_{RMS}
- b) Overall AWM/STYLE 2661 105°C / 300 V_{RMS}
CM 105°C

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- SUN RES
60C OIL
- 2) CSA International AWM I/II A/B 105°C / 300 V_{RMS}
C(UL) TYPE CMG 105°C
FT4
3) CE: EU Low Voltage Directive 2014/35/EU

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 and the amending Directive 2015/863/EU of 4 June 2015. 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](#).
- 3) California Proposition 65: Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.

D. Physical & Mechanical Properties

- 1) Temperature Range -10 to 105°C(static), +5 to 105°C (dynamic)
2) Bend Radius 12X Cable Diameter(static), 12X Cable Diameter(dynamic)
3) Pull Tension 35 Lbs, Maximum
4) Sunlight Resistance Yes

E. Electrical Properties

- (For Engineering purposes only)
300 V_{RMS}
- 1) Voltage Rating
2) Component 1
- a) Mutual Capacitance 35 pF/ft @1 kHz, Nominal
 - b) Ground Capacitance 63 pF/ft @1 kHz, Nominal
 - c) Characteristic Impedance 54 Ω
 - d) Inductance 0.19 μH/ft, Nominal
 - e) Conductor DCR 30 Ω/1000ft @20°C, Nominal
 - f) Component Shield DCR 21.6 Ω/1000ft @20°C, Nominal
 - g) OA Shield DCR 5.4 Ω/1000ft @20°C, Nominal
- 3) Component 2
- a) Capacitance 48 pF/ft @1 kHz, Nominal Conductor to Conductor
 - b) Ground Capacitance 86 pF/ft @1 kHz, Nominal
 - c) Characteristic Impedance 40 Ω
 - d) Inductance 0.17 μH/ft, Nominal
 - e) Conductor DCR 11.2 Ω/1000ft @20°C, Nominal
 - f) OA Shield DCR 5.4 Ω/1000ft @20°C, Nominal
- 4) Component 3
- a) Ground Capacitance 89 pF/ft @1 kHz, Nominal
 - b) Inductance 0.05 μH/ft, Nominal
 - c) Conductor DCR 29 Ω/1000ft @20°C, Nominal
 - d) OA Shield DCR 5.4 Ω/1000ft @20°C, Nominal

F. Other

- 1) Packaging Flange x Traverse x Barrel (inches)
a) Bulk(Made-to-order)

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

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Accepted By:	Date:
Company:	Title:

PROPRIETARY

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