

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Numbers: 2160 – 2176
Spec Number: C2160
Page 1 of 3 Pages

Issue: 6
Issue Date: 7/21/2014
Effective Date: 7/21/2014

Product Description: Tinned Copper Tubular Braid in accordance with Federal Specification A-A-59569A

A. Construction

- 1) Conductor
 - a) Material Tinned Copper, per ASTM B-33, latest revision
 - b) Stranding Solid
- 2) Braid Data

Part Number	Nominal I.D. Round (Inches)	AWG of Ends	Number of Carriers	Nominal Percent Coverage	Number of Ends	Approx. Equiv. AWG	Approx. Current Capacity (Amps)	Federal Spec. Number
2160	0.031	36	24	71	24	22	7	AA59569R36T0031
2162	0.062	36	24	78	48	19	11	AA59569R36T0062
2163	0.078	36	24	88	72	18	16	AA59569R36T0078
2164	0.109	36	24	90	96	16	19	AA59569R36T0109
2166	0.125	36	24	93	120	15	25	AA59569R36T0125
2167	0.156	36	24	95	240	12	40	AA59569R36T0156
2168	0.171	36	24	96	168	14	32	AA59569R36T0171
2170	0.203	34	24	99	192	11	46	AA59569R34T0203
2171	0.250	36	24	99	384	10	53	AA59569R36T0250
2171/1	0.281	30	24	93	120	9	60	AA59569R30T0281
2172	0.375	36	48	97	384	10	53	AA59569R36T0375
2173	0.437	30	24	99	240	6	90	AA59569R30T0437
2174	0.500	36	48	99	528	9	62	AA59569R36T0500
2175	0.562	30	48	99	480	3	145	AA59569R30T0562
2175/1	0.656	30	48	99	768	1	190	AA59569R30T0656
2176	0.781	36	48	99	864	7	88	AA59569R36T0781

B. Industry Approvals and Ratings

- 1) DSCC-VAI Commercial Item Description A-A-59569A, latest issue

C. Environmental Compliance

- 1) RoHS Directive (2011/65/EU):

All materials used in the manufacture of this part meet the requirements of European Directive 2011/65/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.

This specification outlines the requirements for the product(s) described herein. Deviations from this specification are not permitted without the written authorization of the Alpha Wire Engineering Department. All finished products will be inspected to the specification and noncompliance or unauthorized deviations will be cause for rejection and return of product. If vendor certifying agency requirements are in conflict with this document, **it is incumbent upon the vendor to notify the Alpha Wire Engineering Department** and mark up differences on this document and submit them for **review and approval prior to any production**. Be advised that **product legend information and product legend information and product label information must be in concert**; both are the responsibility of the vendor. It is the **responsibility of the vendor** to insure that this product meets the requirements of subservient certifying agency documents even though they are not directly noted herein. All information contained herein is confidential. Its use is restricted to authorized Alpha Wire Company personnel or authorized vendors of the Alpha Wire Company. Under no circumstances shall this document be duplicated in any form or shown to/discussed with unauthorized personnel without the expressed written consent of the Alpha Wire Engineering Department.

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Numbers: 2160 – 2176
Spec Number: C2160
Page 2 of 3 Pages

Issue: 6
Issue Date: 7/21/2014
Effective Date: 7/21/2014

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:

The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

D. Packaging Requirements

- 1) Standard Package
- 2) Length Tolerance
- 3) Splicing Method
- 4) End Protection
- 5) Multiple Pieces

per Table 1
Packages shall be -0/+5% in length.
Overlapped on spool, Ends may not be taped together.
None
100 ft. Put-ups shall be continuous, no splices allowed.
250 ft. Put-ups shall be 2 pieces Max.
100 ft. Put-ups shall be continuous, no splices
1000 ft. Put-ups shall be 3 pieces Max.
The minimum individual length shall be 50 feet for 2160 (1/32) to 2168 (11/64) and 25 feet for all other sizes.

Table 1

Part Number	100 ft Put-Up	250 ft Put-Up	500 ft Put-Up	1000 ft Put-Up
2160	SP1-10 2.75 x 1 x 1-1/8	SP1-10 2.75 x 1 x 1-1/8	N/A	
2162	SP1-10 2.75 x 1 x 1-1/8	SP2-10 2.75 x 2 x 1-1/8	N/A	
2163	SP2-10 2.75 x 2 x 1-1/8	SP3-10 3.5 x 3 x 1-1/8	N/A	
2164	SP3-10 3.5 x 3 x 1-1/8	W9-145 9 x 4.5 x 3.5	N/A	
2166	SP3-10 3.5 x 3 x 1-1/8	W9-145 9 x 4.5 x 3.5	N/A	
2167	W9-145 9 x 4.5 x 3.5	W9-145 9 x 4.5 x 3.5	N/A	
2168	W9-145 9 x 4.5 x 3.5	W9-145 9 x 4.5 x 3.5	N/A	
2170	W9-145 9 x 4.5 x 3.5	N/A	N/A	W12-10 12x10x5
2171	W9-145 9 x 4.5 x 3.5	N/A	N/A	
2171/1	W9-145 9 x 4.5 x 3.5	N/A	N/A	
2172	W9-145 9 x 4.5 x 3.5	N/A	W12-6 12 x 6 x 3.5	
2173	W9-145 9 x 4.5 x 3.5	N/A	N/A	
2174	W9-145 9 x 4.5 x 3.5	N/A	N/A	
2175	W12-6 12 x 6 x 3.5	N/A	N/A	
2175/1	W12-6 12 x 6 x 3.5	N/A	N/A	
2176	W12-6 12 x 6 x 3.5	N/A	N/A	

This specification outlines the requirements for the product(s) described herein. Deviations from this specification are not permitted without the written authorization of the Alpha Wire Engineering Department. All finished products will be inspected to the specification and noncompliance or unauthorized deviations will be cause for rejection and return of product.

If vendor certifying agency requirements are in conflict with this document, **it is incumbent upon the vendor to notify the Alpha Wire Engineering Department** and mark up differences on this document and submit them for **review and approval prior to any production**. Be advised that **product legend information and product label information must be in concert**; both are the responsibility of the vendor. It is the **responsibility of the vendor** to insure that this product meets the requirements of subservient certifying agency documents even though they are not directly noted herein.

All information contained herein is confidential. Its use is restricted to authorized Alpha Wire Company personnel or authorized vendors of the Alpha Wire Company. Under no circumstances shall this document be duplicated in any form or shown to/discussed with unauthorized personnel without the expressed written consent of the Alpha Wire Engineering Department.

ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Numbers: 2160 – 2176
Spec Number: C2160
Page 3 of 3 Pages

Issue: 6
Issue Date: 7/21/2014
Effective Date: 7/21/2014

E. Other

- 1) Notes:
 - a) 500 ft. Put-up available by Special Order, Minimums may apply.

This specification outlines the requirements for the product(s) described herein. Deviations from this specification are not permitted without the written authorization of the Alpha Wire Engineering Department. All finished products will be inspected to the specification and noncompliance or unauthorized deviations will be cause for rejection and return of product. If vendor certifying agency requirements are in conflict with this document, **it is incumbent upon the vendor to notify the Alpha Wire Engineering Department** and mark up differences on this document and submit them for **review and approval prior to any production**. Be advised that **product legend information and product legend information and product label information must be in concert**; both are the responsibility of the vendor. It is the **responsibility of the vendor** to insure that this product meets the requirements of subservient certifying agency documents even though they are not directly noted herein. All information contained herein is confidential. Its use is restricted to authorized Alpha Wire Company personnel or authorized vendors of the Alpha Wire Company. Under no circumstances shall this document be duplicated in any form or shown to/discussed with unauthorized personnel without the expressed written consent of the Alpha Wire Engineering Department.