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ALPHA WIRE
CUSTOMER PRODUCT SPECIFICATION

Part Numbers: 2160 – 2176 | **Issue: 6**
Spec Number: C2160 | **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.

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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	per Table 1
2) Length Tolerance	Packages shall be -0/+5% in length.
3) Splicing Method	Overlapped on spool, Ends may not be taped together.
4) End Protection	None
5) Multiple Pieces	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	

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E. Other

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

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