



Rural Development

September 8, 2017

Rural Utilities  
Service

Technical Standards  
Committee "A"  
(ELECTRIC)

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Gary Harter  
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Dear Gary Harter:

Technical Standards Committee "A" (Electric) has granted Acceptance of your products contained in Application **2017-23**.

This acceptance does not relieve the manufacturer of any responsibility for the satisfactory performance of the item and its conformity to guarantees, specifications, or other provisions of contracts covering its sale. This acceptance is made with the further understanding that no changes in design or workmanship affecting the quality, strength, or electrical characteristics of the item will be made without the knowledge of the Technical Standards Committees. You are also asked to notify the Technical Standards Committees of any change in manufacturing plant location or locations.

Sincerely,

*Norris W. Nicholson*

NORRIS W. NICHOLSON  
Chair, Technical Standards  
Committee "A"  
Electric Staff Division  
Rural Utilities Service

cj-1  
September 2017

cj - Pole Ground Wire

Soft annealed iron, BB Grade, class C galvanizing  
(For pole protection only)

Size  
1.15 Ohms/1000 ft., max.

Manufacturer

Florida Wire and Cable	3-wire, 5/16 inch
Indiana Steel and Wire	3-wire, 5/16 inch
National Strand Products	3-wire, 5/16 inch
Southwire	3-wire, 5/16 inch

Copper, soft annealed solid  
ASTM Specification B3

Manufacturer  
(See page av-2)

Aluminum (for above ground use only)  
Hard-drawn

Manufacturer  
(See page av-1)

Aluminum Alloy (for above ground use only)

<u>Manufacturer</u>	<u>Type</u>
Alcan Cable	6201
American Electrical	6201
Southwire	6201

Copper-Clad Steel, Annealed 40 percent Conductivity

<u>Manufacturer</u>	<u>Size</u>
AFL Copperclad Copperweld Bimetallics, LLC*	No. 6, No. 4., No. 2 No. 6

\* Size listed refers to minimum. Larger sized conductors are allowable if latest edition of the National Electrical Safety Code (NESC) is met.

sr-1  
September 2017

sr - Steel Conductor for Substation Grounding, Copper-Clad or Galvanized

(See av-2 for copper grounding conductor)

Manufacturer	Type	Sizes
<b>AFL Copperclad</b>	copper-clad steel (dead soft annealed)	7 No. 6 AWG 7 No. 5 AWG 7 No. 4 AWG <b>19 No. 9 AWG</b> <b>19 No. 8 AWG</b> 19 No. 6 AWG 19 No. 5 AWG

NOTES:

1. Minimum 40% conductivity
2. 7-strand conductors can be supplied in 19-strand configuration and vice-versa.
3. Conductors chosen must be able to carry the required short duration fault current and must be selected based on IEEE Standard 80.
4. When used in soil with resistivity of 25 ohm-meters (2500 ohms per cubic centimeter) or less cathodic protection must be incorporated into the grounding design.