

# EXPECTED IMPLEMENTATION JANUARY 2016

## 634 SPAN WIRE ASSEMBLY. (REV 7-30-15) (FA 8-3-15) (1-16)

SUBARTICLE 634-2.3 is deleted and the following substituted:

**634-2.3 Hardware and Fittings:** For utility or Siemens-Martin grade wires, use the connection hardware as specified herein. For installations that use other grades of wire, provide the hardware and fittings indicated in the Plans. Provide only hardware and fittings made of galvanized steel or non-corrosive metal unless the fiberglass insulators specified in 634-2.4 are also required. Provide hardware and fittings of sufficient strength to resist the breaking strength of the wire with which they are used.

Use an alloy steel eyebolt meeting the requirements of ASTM F541, Type 2 and a matching heavy hex nut meeting the requirements of ASTM A563, Grade C or D, to connect the automatic compression dead-end clamp of the catenary wire and messenger wire to the wood or concrete strain poles. Eyebolts and hex nuts must be zinc coated in accordance with ASTM A153, Class C. Sizes of eyebolts, supplied with nuts and washers, are as following: Use a 3/4 inch diameter bolt for maximum of one 7/16 inch diameter catenary (or messenger) wire, or maximum of two 3/8 inch diameter catenary (or messenger) wires. Use a 1 inch diameter bolt for maximum of one 1/2 inch diameter catenary (or messenger) wire, or maximum of two 7/16 inch diameter catenary (or messenger) wires. Use 1-1/4 inch diameter bolt for maximum of two 1/2 inch diameter catenary (or messenger) wires. For two point attachments, connect the messenger wire at the lower attachment location. Do not use thimble eye bolts for these connections.

Only use thimble eye and eye bolts, 3/4 inch in diameter, minimum, to connect the automatic compression dead-end clamps of tether wires to wood or concrete strain poles.

Only use "S" hooks, 5/16 inch in diameter, minimum, when connecting the tether wire to all poles.

Ensure that other hardware and fittings, as required for the attachment of a span wire assembly to support poles or structures, are in accordance with the details shown in the Design Standards.

Furnish and install new catenary and messenger wire clamps for steel strain pole retrofit applications.