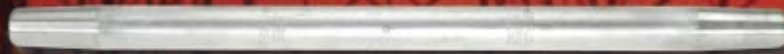
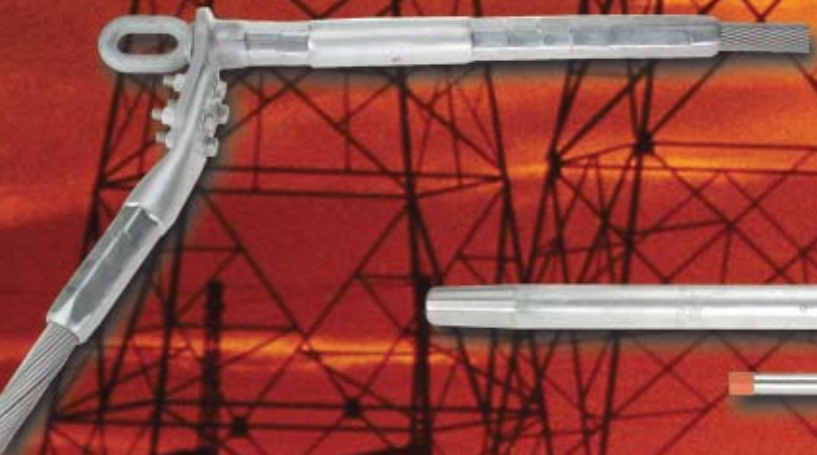


250°C ACSS

ANDERSON & FARGO® Transmission Connectors

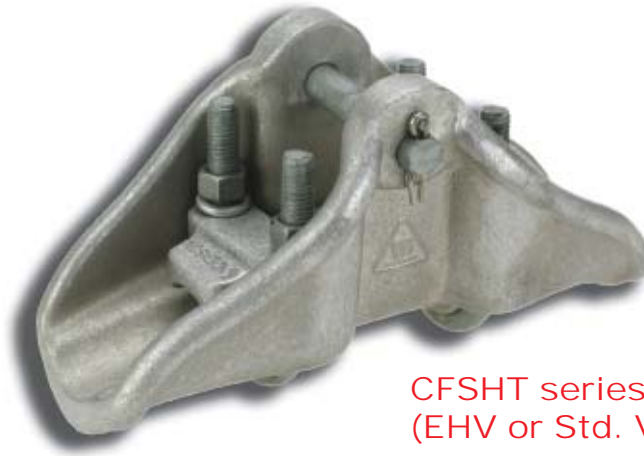
**STRONG WHEN
the
HEAT IS ON**



With Anderson high-temperature alloy suspension clamps and FARGO compression fittings for deadending, splicing and terminating ACSS conductors, Hubbell Power Systems is your complete package source for transmission connectors for ACSS conductor application.

ACSS-Rated Suspension Clamps

ANDERSON



CFSHT series
(EHV or Std. Voltage)

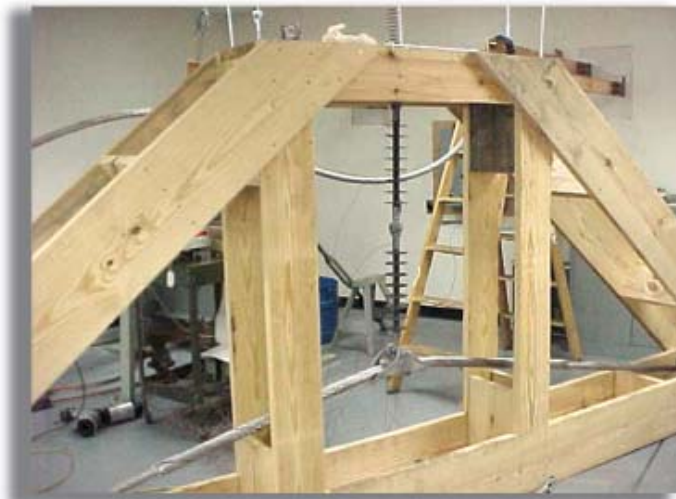
Designated CFSHT (Corona-Free Suspension, High-Temperature), these clamps are designed with an aluminum alloy which retains its strength at temperatures well above the 93 degree Centigrade anneal temperature limit for standard alloy (A356-T6) aluminum clamps.

CFSHT clamps are rated for operation on ACSS and similar high capacity conductors with continuous operating temperatures up to 250 degrees C.

In addition to industry standard markings for connectors, CFSHT suspension clamps are permanently marked with the IEC standard symbol for hot surfaces. This marking allows line construction inspectors to easily verify that the installed clamps are high-temperature rated.



Heat Rise Test Fixture



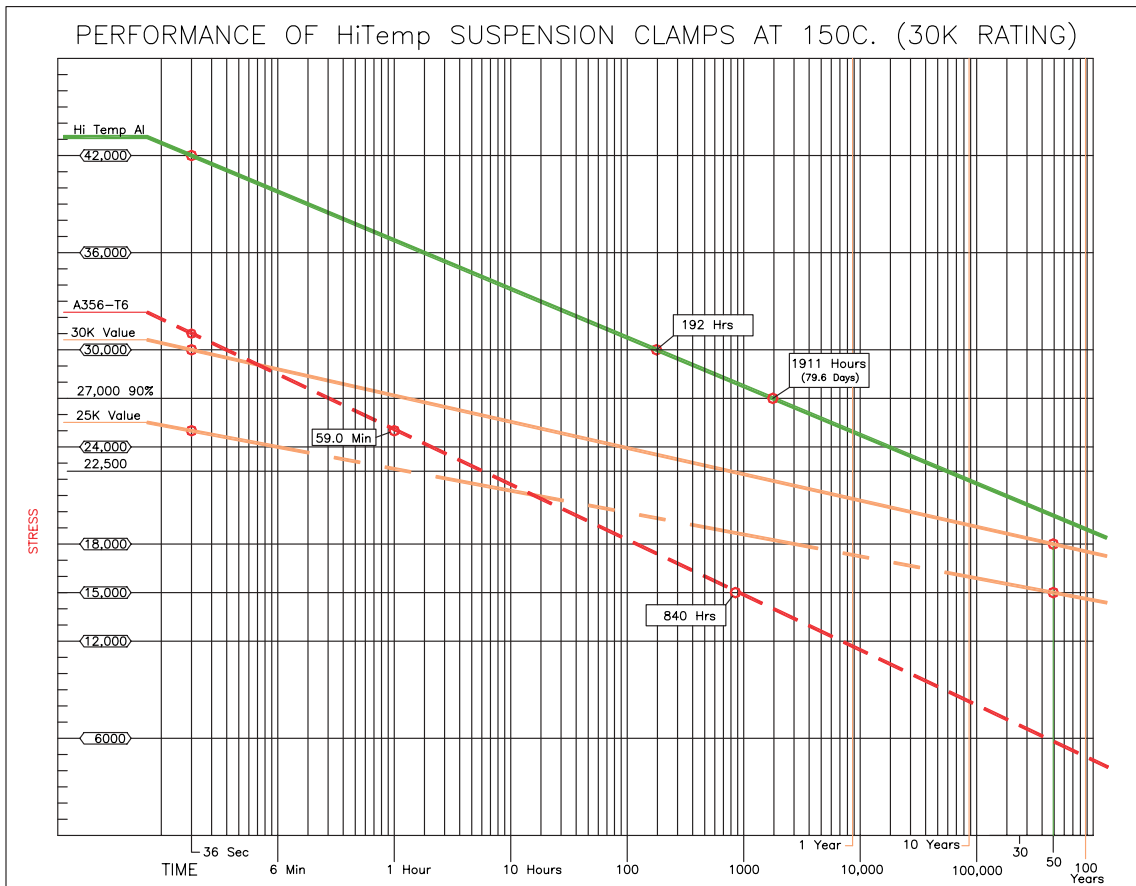
Heat-rise test fixture with conductor in full-sag-angle contact with clamp to simulate in-service heat transfer effect.

Current loop used to raise conductor current and temperature.

Thermocouples used to measure resulting clamp temperatures.

Hi-Temperature vs. Standard Alloy

Time-Load strength at 150° C Clamp Temperature



When used with armor rods or line guards, maximum clamp temperature will approach 150 degrees C. Time-load testing of clamp samples maintained at this temperature, indicate (green line curve graphed above) the CFSHT high-temperature alloy clamps will retain strength levels exceeding maximum working loads over 50 years of accumulated duty high-temperature duty.

As indicated by the dashed curve above, standard alloy (A356-T6) clamps had rapid strength reduction with accumulated time at the elevated temperatures associated with ACSS conductor application. The resulting time-load curve, for the standard alloy clamp samples, projects strength reduction of approximately 80% of their short-term strength after 20 years.

Time-Load Test Fixture



Time-Load test with clamp samples at the maximum temperature determined in heat-rise testing.

[Oven housing around clamp sample removed for photo].

Samples stressed to their failure points used to develop time-temp-load curves in above graph.

ACSS-Rated Compression Fittings

FARGO

DEADEND ASSEMBLY
with Jumper Terminal



SEDA-SSAC series
(for ACSS)
SEDA-STW series
(for ACSS/TW)

FULL TENSION SPLICE
Aluminum Body & Steel Sleeve



TJA-SSAC series
(for ACSS)
TJA-STW series
(for ACSS/TW)

Compression fittings meet the requirements of ANSI C119.4, class AA, for 250 degree C conductor temperature, when properly installed using FARGO type HTJC (High-Temperature) joint compound.

For additional details, including conductor-specific ACSS-rated connector catalog numbers covering all popular conductor sizes, contact your HPS representative, or visit our web site at www.hubbellpowersystems.com to view our online catalog and product specifications.



[®] POWER SYSTEMS, INC. **visit:** www.hubbellpowersystems.com

NOTE: Because Hubbell Power Systems has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.

ANDERSON **CHANCE** [®] **FARGO** [®] **HUBBELL** [®] **OHIO/BRASS** [®]

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