ANSYS AIM Thermal Analysis of an Electrical Wire - Verification & Validation

Author(s): Joshua Wallace & Steve Scampoli, ANSYS Inc.

Problem Specification

- 1. Pre-Analysis & Start-Up
- 2. Geometry
- 3. Physics Setup
- 4. Numerical Solution/Results
- 5. Verification & Validation

Verification & Validation

From the Ansys Mechanical APDL Verification Manual problem VM119 the calculated centerline temperature was 420.0 F (215.6 C). The percent error between these two calculations is 0.102%. In conclusion, the solvers calculation for the centerline temperature is accurate.

Simulation Value	Verification Value	% Difference
215.38	215.6	0.102%

Go to all ANSYS AIM Learning Modules