

**NC Department of Insurance  
Office of the State Fire Marshal - Engineering Division  
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919-647-0001**

**Mobile Home Feeders and Equipment Grounding Conductors**

**Code:** 2017 Electrical Code  
**Section:** 550.33(A)(1)

**Date:** June 12, 2018

**Question:**

A double wide manufactured home is fed from a 200 ampere service panelboard on the side. A feeder is installed from the service panel, down the side, and under the home 30 feet, and up into the sub-fed panel. The feeder is size 4/0 aluminum service cable, 4-wire, which has a bare equipment grounding conductor, but is contained within a moisture resistance sheath with the other conductors. Is this equipment grounding conductor in a cable the same as an insulated equipment grounding conductor?

**Answer:**

No.

Section 550.33(A)(1) requires that for any feeder supplying a manufactured home, four insulated, color coded conductors are to be installed. There is no exception, nor is a bare conductor within a cable assembly considered to be insulated. Therefore, each conductor must have its own insulating covering.

**Keywords:**

mobile homes, manufactured homes, and mobile home parks