

**NC Department of Insurance  
Office of the State Fire Marshal - Engineering Division  
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**Mobile Home Feeders and Equipment Grounding Conductors**

**Code:** 2014 Electrical Code  
**Section:** 550.33

**Date:** March 16, 2017

**Question:**

A double wide mobile 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 requires that for any feeder supplying a mobile home, four insulated, color coded conductors are to be installed. There is no exception, nor is a bare conductor of a cable considered to be insulated. Therefore, each conductor must have its own insulating covering.

**Keywords:**

mobile homes, manufactured homes, mobile home parks