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Original Issue Date: 11/3/81	Revision Date: 12/16/02
Signature/Initial: Chief, Division of Electrical Safety <i>Kenneth Porter</i>	

## Policy on Cable Current Carrying Capacity

### 1.0 PURPOSE

The purpose of this Policy (POL) is to provide guidance to Electrical Equipment Branch (EEB) investigators when evaluating the current carrying capacity of cables used on permissible mining equipment as required by Title 30 Code of Federal Regulations (30 CFR), Part 18, Section 18.36(a)(1).

### 2.0 SCOPE

This POL encompasses equipment submitted to MSHA for evaluation under 30 CFR Part 18.

### 3.0 REFERENCE

This document references 30 CFR 18.36(a)(1).

### 4.0 DEFINITIONS

There are no terms in this document, which need to be defined.

### 5.0 POLICY

5.1 30 CFR, Part 18, Section 18.36(a)(1) requires cables between machine components to have adequate current carrying capacity for the loads involved.

5.2 Cables supplying motor loads should be rated for 125 percent of the motor full load current. The rating should be at the highest anticipated ambient temperature.

5.3 Cables supplying multiple motors or other loads should be rated at least 125 percent of the largest load plus 100 percent of all other loads. The rating should be at the highest anticipated ambient temperature.

For varying and intermittent duty motors and loads, the applicant may justify the use of a cable with a smaller rating than that specified in sections 5.2 or 5.3.

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#### 6.0 DISTRIBUTION

This document is for internal use and will be distributed to others when requested.

#### 7.0 AUTHORITY

Title 30 Code of Federal Regulations, Section 18.36(a)(1)