

Test Standard

Cable Fire Propagation

Class Number 3972
March 2009



Member of the FM Global Group

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1 INTRODUCTION

1.1 Purpose

This standard describes FM Approvals test requirements and procedures for establishing the classification for cable fire propagation. Cables covered by this standard include electrical and optical cables, herein called cables. The classification rating established in this Specification Test Standard may be used to determine acceptable fire protection techniques applicable to a given field installation.

1.2 Scope

1.2.1 This standard is applicable, but not limited, to various types of electrical cables such as communications cables (including fiber optic cables), power distribution cables, feeder branch circuit wiring, etc, having outer insulating coverings or metallic sheath, which may be used for commercial and industrial purposes.

1.2.2 This standard does not assess the cable's ability to provide circuit integrity when cable is subjected to a fire source.

1.2.3 Not applicable to cable coatings applied after the cable has been installed.

1.3 Basis for FM Approvals Specification Tested Product Listing

FM Approvals Listing is based on satisfactory evaluation of the product and the manufacturer in the following major areas:

1.3.1 Examination and tests shall be performed on production samples to evaluate flammability characteristics of product formulation; and

1.3.2 An examination of the manufacturing facilities and audit of quality control procedures shall be made to evaluate the manufacturer's ability to produce the product which is examined and tested, and the marking procedures used to identify the product. These examinations are repeated as part of FM Approvals Facilities and Procedures Audit Program.

1.4 Basis for Continued Listing

Continued Listing is based upon:

- production or availability of the product as currently Listed;
- the continued use of acceptable quality control procedures;
- satisfactory field experience;
- compliance with the terms stipulated in the Specification Tested Product Master Agreement; and
- re-examination of production samples for continued conformity to requirements.