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# APPROVAL REPORT

**Project No:** PR453523  
**Class:** 3972  
**Product Name:** FIB Power Cable  
**Product Type:** GP-1 Single and Multi-Conductor Electrical Cables  
**Name of Listing Company:** Thinh Phat Cables Joint Stock Company  
**Address of Listing Company:** 144A Ho Hoc Lam St  
An Lac Ward, Binh Tan District Ho Chi Minh  
Vietnam  
**Customer ID:** 255873-1  
**Customer website:** <http://www.thiphacable.com>

**Prepared by**

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**8/15/2022**

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**Date of Approval**

## 1 INTRODUCTION

1.1 Thin Phat Cables Joint Stock Company requested Approval of their FIB Power Cable, 1.5-400 mm<sup>2</sup>, 1-4 conductors with Low Smoke Zero Halogen (LSZH) jacket listed in Section 1.4 to determine if it meets the Approval requirements of the standard listed in Section 1.3.

1.2 This report may be freely reproduced only in its entirety and without modification.

### 1.3 Standard

Title	Number	Issue Date
Examination Standard for Cable Fire Propagation	3972	April 2021

### 1.4 Listing

The products will appear in the Approval Guide an on-line resource of FM Approvals, as follows:

#### FIB Power Cable

*The following cables are FM Approvals GP-1 having a Fire Propagation Index (FPI) less than 10.*

Cable Designation	Jacket Material	Core Type	Nominal Conductor Area
FIB Power Cable	Polyolefin (LSZH)	Single	1 conductor – 1.5 to 400 mm <sup>2</sup> (0.002 - 0.6200 in <sup>2</sup> )
FIB Power Cable	Polyolefin (LSZH)	Multi	2,3,4 conductors - 1.5 to 400 mm <sup>2</sup> (0.002 - 0.6200 in <sup>2</sup> )

## 2 DESCRIPTION

The cable is described as follows:

The FIB Power Cable is a single or multi-conductor, unarmored cable with layers of MICA tape wrapped over the conductors, XLPE insulation, LSZH bedding with a Polyolefin jacket. The cable is constructed using various gauge size (AWG or kcmil) of conductor, insulation thickness and outer jacket thicknesses which vary with cable diameter.

## 3 EXAMINATIONS AND TESTS

3.1 Samples were submitted for examination and testing. The samples were considered to be representative of standard production and were examined or tested as indicated below. All data is on file at FM Approvals along with other documents and correspondence applicable to this program.

3.2 All testing and analysis considered appropriate was conducted and verified to be in compliance with the Standard defined in Section 1.3.

3.3 Several performance requirements and tests required by the Standard have been waived due to previous successful testing. See Table 1 below for details.

**Table 1**

Standard Number	Section	Test Name	Justification/Comments
3972	4.1	Fire Propagation Index	PR453523
3972	4.2	Smoke Damage Index	Waived, only required for GP-1 4910 rating

**4 MARKING**

4.1 The marking, to be placed along the length of the cable, shall be repeated at intervals not exceeding 24 inches (610 mm) and shall bear the certification agency’s mark of conformity and the rating(s) as applicable as shown below:

- name and address of the manufacturer or marking traceable to the manufacturer;
- date of manufacture or code traceable to date of manufacture or lot identification;
- product tradename
- GP-1
- FM Approvals mark

4.2 All markings shall be of a contrasting color with respect to the background (e.g., white marking on black background).

4.3 The certification markings shall be used only in conjunction with the products which have been tested and certified by the certification agency

4.4 All markings shall be legible and durable

**5 REMARKS**

Continued Approval is based upon fabrication of the FIB Power Cable in accordance with this Approval Report, satisfactory field experience and continued use of acceptable quality control procedures as determined by Surveillance Audits.

**6 SURVEILLANCE AUDIT**

The manufacturing facilities at the following location shall be visited on a routine basis. The facility processes and quality control procedures in place have been determined to be satisfactory to manufacture products identical to that tested and Approved. An FM Approved Products/Specification Tested Revision Request Form shall be submitted to FM Approvals for requesting to manufacture products at any additional or alternate manufacturing facilities which are not listed below.

**Audit Location**

Thin Phat Cables Joint Stock Company  
 Hamlet 3, Luong Binh Commue  
 Ben Luc District, Long An Province  
 Vietnam

**7 MANUFACTURER’S RESPONSIBILITIES**

- 7.1 Documentation that is applicable to this approval is on file at FM Approvals and listed in the Documentation File, Section 8, of this report. No changes of any nature shall be made unless notice of the proposed change has been given and written authorization obtained from FM Approvals. The FM Approved Products/Specification Tested Revision Request Form shall be forwarded to FM Approvals as notice of proposed changes.
- 7.2 The manufacturer shall supply all instructions, materials and assistance necessary for the complete, proper and satisfactory installation of the cable product.
- 7.3 In accordance with the Master Agreement, the manufacturer shall make full and immediate disclosure to FM Approvals of all information concerning any defect in, or potential hazard of, the product or service manufactured or provided by the Customer which is Approved by, or being examined by, FM Approvals. The manufacturer shall make all necessary arrangements for the investigation of complaints / anomalies applicable to this approval and shall keep records of all complaints / anomalies including actions taken.

**8 DOCUMENTATION**

The following document describes the FIB Power Cable and is on file at FM Approvals.

<b>Document Title</b>	<b>Issue Date</b>
Surveillance Audit Manual	7/25/2022

**9 CONCLUSION**

The products described in section 1.4 meet FM Approvals requirements. Since a duly signed Master Agreement is on file for this manufacturer, Approval is effective the date of this report.

**PROJECT DATA RECORD:** PR453523

**ATTACHMENTS:** none