



# FIT Tape

## Data Sheet

### Description

FIT Tape is a 0.5 mm thick, polyethylene insulating tape used for low and high voltage insulation.

### Applications

- Primary electrical insulation for all wire and cable splices rated up to 10 kV.
- Primary electrical insulation for 600 volt bus applications, and protective jacketing for low and high voltage bus.
- Protective jacketing for high voltage cable splices and repairs.
- Harnessing of wires and cables.

### Typical Properties

Not for specifications. Values are typical, not to be considered minimum or maximum.

Properties measured at room temperature 22°C unless otherwise stated.

Physical Property (Test Method ASTM D-1000)	Typical Value
Colors	Black
Thickness	0.5 mm (0.12 mm Backing)
Width	19 mm
Length	10 m
Volume Resistivity	> $1 \times 10^{14}$ Ohm-cm
Dielectric Strength	> 10 kV/mm
Tensile Strength	18.6 N @ 19 mm
Ultimate Elongation	> 300%
Adhesion to Backing	18.6 N @ 19 mm
Ozone Resistance	Good
Tracking Resistance	Good

## Installation

FIT Tape shall be applied in half-lapped layers with sufficient tension to produce a uniform wind (for most applications this tension will reduce the tape's width to approximately 5/8 of its original width). On pigtail splices, the tape shall be wrapped beyond the end of the wires and then folded back, leaving a protective cushion to resist cut-through. Wrap tape up-hill, taping from a smaller diameter surface to a larger diameter surface. Apply the tape with no tension on the last wrap to prevent flagging.

## Availability

Please contact your local distributor; available from [3M.com/electrical](http://3M.com/electrical) [Where to Buy].

## Shelf Life & Storage

This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C to 27°C and <75% relative humidity).

## Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product, which are not contained in 3M's current publications, or any contrary statements contained on your purchase order, shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

### Warranty; Limited Remedy; Limited Liability

This product will be free from defects in material and manufacture at the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

3M Taiwan Ltd. Electrical Markets Division  
6F., No. 95, Sec. 2, Dunhua S. Rd., Taipei 10682, Taiwan, R.O.C.  
Tel: (02) 2704-9011 Fax: (02)2754-1534