



3M™ Fire Barrier Putty Sleeve Kits DT 100, DT 200 and DT 400

Product Data Sheet



FIRESTOP DEVICE
FOR USE IN THROUGH-PENETRATION
FIRESTOP SYSTEMS
SEE UL FIRE RESISTANCE DIRECTORY
90G8



LISTED
FIRESTOP DEVICES 90G8

1. Product Description

3M™ Fire Barrier Putty Sleeve Kits DT 100, DT 200 and DT 400 are designed to help prevent the passage of fire and smoke in new or existing cable penetrations through walls or floors. Each kit comes complete in a box containing a 3M™ Fire Barrier Putty Sleeve (two-part metallic sleeve with set of two-part metallic flanges), 3M™ Fire Barrier Moldable Putty+, sheet metal screws, drywall screws and two installation identification labels. These kits can be used as a one-piece sleeve or the sleeve may be split/hinged for existing cable installations. The sleeves can be easily installed in openings that are either tight to the sleeve or irregular. The oversized openings can accommodate up to a one-inch larger diameter than the 3M™ Fire Barrier Putty Sleeve diameter.



Firestop kits with 1" (25mm), 2" (51mm) or 4" (102mm) diameter by 12" (304mm) length putty sleeves

Product Features

- Ready-to-install kit with all items needed for a complete cable or blank firestop installation
- Tested up to 4 hours for fire-rated through penetration systems in accordance with ASTM E 814 (UL 1479)
- Blank sleeve (0% cable fill) accommodates future cable installation
- Two-piece split/hinged design for easy retrofit installation on existing cables
- Suitable for installation in gypsum wallboard and concrete walls or floors
- No gasket required

Provides a re-enterable solution for firestopping applications. This feature reduces the waste associated with traditional products that must be discarded and replaced when assemblies are modified.

2. Applications

3M™ Fire Barrier Putty Sleeve Kits are ideal for existing through-penetration openings with cables, future cable installations (blank openings*) or new construction through-penetration openings for power and communication cables. The cable types can be a mixture of the following:

Cable Fill

- 100 pr. No. 24 AWG copper conductor telephone cables
- 1/C-750 kcmil copper conductor power cable
- 7/C-No. 12 AWG copper conductor control cables
- Coaxial cables
- 3/C-No 2/0 AWG aluminum conductor SER cable with No. 1 AWG aluminum ground conductor
- No. 23 AWG Category 6 data cables
- Fiber optic cable

*Blank 4" diameter 3M™ Fire Barrier Putty Sleeve Kit DT 400 requires 3M™ Fire Barrier Packing Material PM4 or 4 pcf mineral wool batt insulation—consult applicable system details.

3M™ Fire Barrier Putty Sleeve Kit	Sleeve size	Flange Dimension	Min. Opening Size	Max. Opening Size
DT 100	1" (25mm) Diameter 12" (304mm) Length	3-3/8" (86mm) x 3-3/8" (86mm)	1-1/8" (29mm)	2-1/4" (57mm)
DT 200	2" (51mm) Diameter 12" (304mm) Length	5-1/4" (133mm) x 5-1/4" (133mm)	2-3/8" (60mm)	4" (102mm)
DT 400	4" (102mm) Diameter 12" (304mm) Length	8" (203mm) x 8" (203mm)	4-1/2" (114mm)	6" (152mm)



3. Specifications

To be used for penetrations through fire-rated construction with blank openings and openings containing various penetrating cable types. These putty sleeve and flange kits provide through-penetration firestop systems. When properly installed, 3M™ Fire Barrier Putty Sleeve Kits help resist the spread of fire, resist the passage of smoke and other gases and helps maintain the original fire-resistance rating of the construction penetrated in fire-rated wall or floor assemblies. 3M™ Fire Barrier Putty Sleeve Kits shall be listed by independent test agencies (e.g. UL, Intertek, FM) and shall be tested to and pass the criteria of ASTM E 814 (UL 1479) Standard Test Method for Fire Tests of Penetration Firestop Systems.

Typically Specified Division

Division 7

Section 07 84 00 – Firestopping

Section 07 84 13 – Penetration Firestopping

Division 26

Section 26 00 00 Electrical

Division 27

Section 27 00 00 Communications

4. Physical Properties

Colors Available:

Steel-colored (galvanized steel) sleeve with red labels

Sizes:

Putty Sleeve Sizes: DT 100 1 inch (25mm); DT 200 2 inch (51mm); DT 400 4 inch (102 mm)

Length:

12 inches (304mm) for DT 100, DT 200, DT 400

Sleeve and Flange Plate Material:

18 Gauge galvanized steel

Fill Material and Properties:

3M™ Fire Barrier Moldable Putty+ Sticks

Color: Red **Adhesion:** Very good

Fire resistance: 1-4 hours (wall- or floor-rating dependent)

Expansion: Begins @ 400° F (204° C)

Volume expansion: @ 662° F (350° C) Nominal 3x

Continuous Use Temperature: ≤ 120° F (48.8° C)

Additional Kit Materials:

Sheet metal screws, drywall screws, installation identification labels

5. Packaging, Storage, Shelf Life

Packaging

Each kit is in a box container with a product label on the exterior of the box.

Storage

3M™ Fire Barrier Putty Sleeve Kits DT 100, DT 200 and DT 400 should be stored indoors in dry conditions.

Shelf Life

3M™ Fire Barrier Putty Sleeve Kits DT 100, DT 200 and DT 400 shelf life is indefinite when stored in original unopened containers in packaging.

6. Installation Techniques

Consult a 3M Authorized Fire Protection Products Distributor / Dealer or Sales

Representative for applicable UL, or other third-party, drawings and system details.

Preparatory Work

The size of the opening and any penetrating items should be sized appropriately for the selected sleeve kit to allow for proper installation and seal. Note: apply 3M™ Fire Barrier Moldable Putty+ Sticks in conditions above 32° F (0° C).

Installation Details

Install correct kit size as detailed within the applicable UL system for the assembly and required system rating(s).

Limitations

Do not apply 3M™ Fire Barrier Putty Sleeve Kits to openings larger than the allowed opening sizes (*refer to the 3M™ Fire Barrier Putty Sleeve Kit Installation Guide* for typical installation techniques).

7. Maintenance

No maintenance should required when installed in accordance with 3M™ Fire Barrier Putty Sleeve Kit Installation Guide. Once installed, if any section of the 3M™ Fire Barrier Putty Sleeve Kits is damaged, the following procedure will apply: the damaged sleeve or flange should be removed and reinstalled in accordance with the applicable UL system.

8. Availability

3M™ Fire Barrier Putty Sleeve Kits are available from 3M Authorized Fire Protection Products Distributors and Dealers. 3M™ Fire Barrier Putty Sleeve Kits sizes available: 1-inch (25mm) DT 100, 2-inch (51mm) DT 200 and 4-inch (102mm) DT 400. For additional technical and purchasing information regarding this and other 3M Fire Protection Products, please call: 1-800-328-1687 or visit www.3m.com/firestop.

9. Safe Handling Information

Consult Material Safety Data Sheet (MSDS) prior to handling and disposing of 3M™ Fire

Barrier Putty Sleeve Kits (refer to MSDS for 3M™ Fire Barrier Moldable Putty+ Sticks).

Important Notice to User:

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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Literature Order Info: 98-0213-4613-9

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