CT120 Cable Transit System

Technical Data Sheet

Product Description

Abesco CT120 Cable Transits are firestop devices which are designed to allow cables to penetrate fire-rated floors and walls. They consist of a square or circular section steel sleeve, which contains a heat reactive graphite based intumescent material. The transits can be opened to provide an easy retro-fit option where cables are pre-installed, and are designed to allow for the installation or removal of additional cables.

When exposed to high temperature the graphite based intumescent material begins to expand (intumesce) rapidly to form a solid insulating char plug which effectively closes and seals the CT120 to prevent the passage of fire and smoke through the fire-rated wall or floor.

Each CT120 is supplied with 2 end plugs which are inserted after the cables have been installed to reduce smoke leakage.

The CT120's are fixed in position using specially designed CT Mounting Flanges which clamp onto the transit and require no additional fixing to the wall or floor.

CT120 CABLE TRANSIT FEATURES

Easy installation – saves labour cost

Retrofit – New, existing and re-running of cables

Intumescent material unaffected by moisture

Suitable for use in Concrete Floors and Walls, Drywall, and Wooden Floors

UL Classified – complies with Building Codes

Flexibility – add extra CT120's as your requirements grow.

Application

Abesco CT120 Cable Transits are used to seal cables which penetrate through walls and floors, and are suitable for most common types of construction including concrete floors, concrete block walls and gypsum drywall assemblies, and rated wooden floor constructions.

Individual CT120 Cable Transits can be banked together to form duplex, triplex or sixplex units using special CT Mounting Flanges (which are supplied separately).

Suitable for data, communications and electrical supply cables, CT120 Cable Transits offer flexibility, expandability, and reliability.

Physical Properties

CT120 Square devices

Nominal Size	65mm CT120	102mm CT120
Dimensions	65mm x 65mm	102mm x 102mm
Length	254mm	254mm

CT120 Round devices

Nominal Size	50mm CT120/R	100mm CT120/R	150mm CT120R
Dimensions	50mm OD	100mm OD	150mm OD
Length	254mm	254mm	254mm

Testing and Performance Data

Tested in accordance with:

ASTM E814, UL 1479 UL classified 1 and 2 hour rating

BS 476, BS EN 1366, AS 1530 for up to 4 hours

FOR USE IN THROUGH PENETRATION FIRESTOP SYSTEMS SEE UL DIRECTORY OF PRODUCTS CERTIFIED FOR CANADA AND UL FIRE RESISTANCE DIRECTORY 24KP

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Installation Methods

Abesco CT120 cable transits are very easy to install, and there is no requirement to cut lengths of intumescent material on site as they are supplied ready to go with the correct amount of intumescent material pre-installed.

New Cabling Installation

1. Select the size of CT120 required.

2. Cut or form a suitable size opening in the floor or wall, ensuring that any annular space between the CT120 and the opening is within the limits defined by the tested constructions.

3. Slide the CT120 into the previously formed opening, making sure that it is positioned centrally within the thickness of the floor or wall ensuring that an equal length protrudes either side.

4. CT120 Cable Transits are installed using CT Mounting Flanges which are friction fitted. Using the correct size CT Mounting Flanges, remove the small nut and bolt from the corner of each flange and fit over each end of the CT120 (ie 1 flange on each side of wall). Slide the flange until it is pressed against the surface of the wall or floor. Re-fit the nut and bolt provided and tighten securely in position. Once secured by tightening, the mounting flanges DO NOT need to be fixed to the wall.

5. Remove the supplied end plugs and pass the cables through the CT120 and support on either side of wall or floor as required. Re-fit the end plugs into both ends of CT120 around the cables.

Existing Cable Installation

1. Select the correct size of CT120 to suit the existing opening. If necessary enlarge the opening to allow for installation ensuring that any annular space between the CT120 and the opening will be within the limits defined by the tested constructions.

2. Open the CT120, remove the supplied end plugs and fit around the existing cables. Close the CT120 around the cables.

3. Slide the CT120 into the previously formed opening, making sure that it is positioned centrally within the thickness of the floor or wall ensuring that an equal length protrudes either side.

4. CT120 Cable Transits are installed using CT Mounting Flanges which are friction fitted. Using the correct size CT Mounting Flanges, remove the small nut and bolt from the corner of each flange and fit over each end of the CT120 (ie 1 flange on each side of wall). Slide the flange until it is pressed against the surface of the wall or floor. Re-fit the nut and bolt provided and tighten securely in position. Once secured by tightening, the mounting flanges DO NOT need to be fixed to the wall.

NOTE: Permanent Cast In Option - In Concrete Floors, CT120's can be permanently cast into the floor by back-filling the annular space with Abesco FR Mortar.

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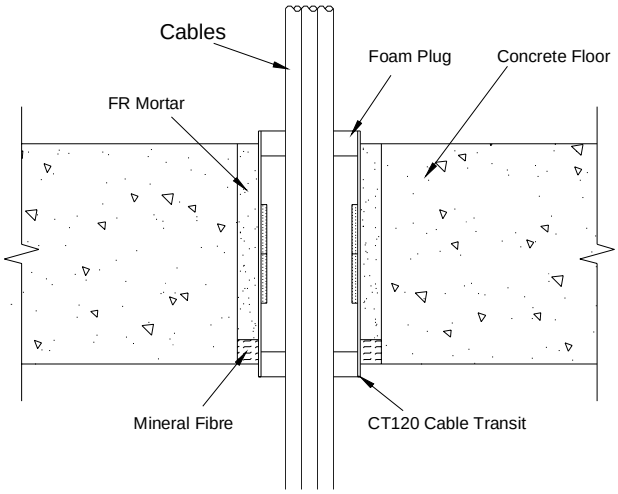
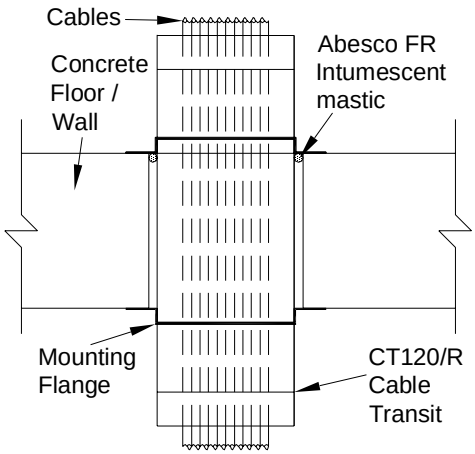
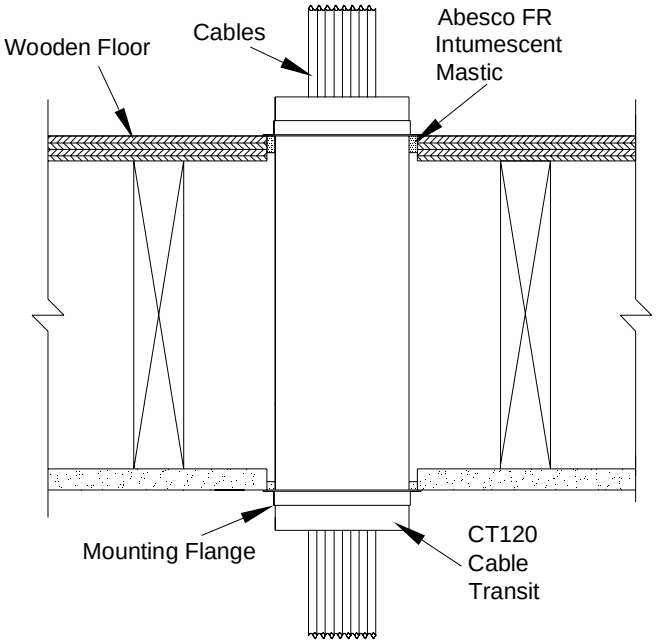
Typical Installations



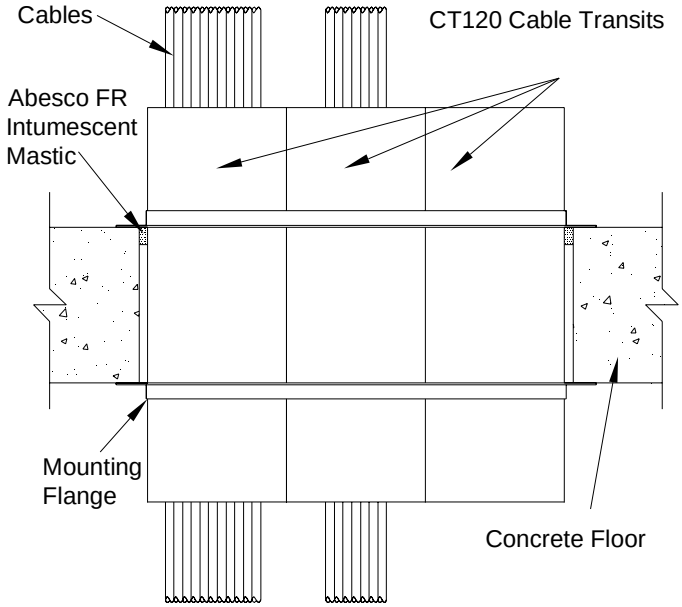
Concrete Floor (Permanent Cast In Option)



Concrete Floor



Wooden Floor



Triple Banked through Concrete Floor

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