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RAUSPEED EasyConnect

Installation instructions



01 Overview

The RAUSPEED EasyConnect blowing-in box allows optical fibre cables to be blown into buildings without the need to access the house. For this purpose, the blowing-in box must be installed beforehand, e.g. when installing the wall entry.

The RAUSPEED EasyConnect blowing-in box has been pressure-tested prior to delivery and is prepared for easy installation.

The section length must be known for the cable blowing process to follow and therefore must be well documented during underground construction.

Structure (delivery):



Also required:

- RAUSPEED individual duct with the same dimensions as the house connection (possible pipe dimensions: 7 x 1.5 mm/10 x 2.0 mm/12 x 2.0 mm) and in the length of the desired excess cable length required for installation in the building or for splicing later on
- 1x RAUSPEED permanent connector (10 mm) or reducer (10 mm to 7 mm or 12 mm) for connecting the excess-length pipe to the cable brake as well as 1x RAUSPEED connector (7 mm/10 mm/12 mm) for connecting the excess-length coil to the house connection pipe
- Fastening material

02 Installation

The RAUSPEED EasyConnect blowing-in box is best installed together with the wall entry in the building so as to best utilise its advantages and require as few house visits as possible. The pipe of the cable brake [G] is 10 x 1.0 in size and therefore has an internal diameter (ID) of 8 mm. This means that any pipes with a maximum ID of 8 mm can be connected. For house connection pipes, this is usually 7 x 1.5 mm, 10 x 2.0 mm or 12 x 2.0 mm.

02.01 Hanging the blowing-in box

The component is hung with the fastening bracket [B] either on a screw or any other suitable point. The open back must be against the wall. If an excess-length coil [D] is to be used, sufficient space must be available for it (diameter approx. 0.5 m, see pages 6/7). If a borehole is made, a location should be selected which enables it to be used for attachment of the demarcation point later on.

02.02 Putting the excess-length coil in place (optional)

If excess cable length is required for laying or splicing of the cable later on, an excess-length coil [D] can be fastened to the blowing-in box. A pipe with the same dimensions as the house connection must be used for this purpose. The desired length is wound into a coil with a diameter of at least 0.5 m and secured in front of the fastening bracket [B] with the hook-and-loop strip [A]. One end of the excess-length pipe [D] is connected to the 10 x 1.0 mm pipe connection [C] of the blowing-in box with a RAUSPEED connector or a reducer.

02.03 Connecting the blowing-in box

The house connection pipe is connected from the wall entry to the excess-length coil with a RAUSPEED connector or a reducer [J] or it is connected directly to the pipe connection [C] of the blowing-in box.

This means that the house connection is sealed pressure-tight up to at least 0.5 bar.



Notes

During the blowing-in process, the valve makes a hissing noise due to the air flowing out. Residents should be informed about this during the installation.

To prevent problems during the blowing-in process, pipe guides with a small radius are generally to be avoided. The pipe should not be inserted into tight guides yet, particularly in the area of the wall entry.

03 Blowing in cables

The fibre optic cable can be blown in without accessing the building. A sponge and lubricant can be used; no special precautions are required. The section length of the individual house connections must be provided in the documentation in order to know the required cable length. This must be monitored at the blowing-in device. The cable stops in the cable brake [G] after reaching the specified blow-in length plus the selected excess length. Before the blowing-in process, a crash test must be performed to set the blowing-in device in such a way that damage to the cable is prevented when it is slowed down in the cable brake [G].

If liquid leaks out of the valve during the blowing-in process (e.g. condensation in the pipelines or lubricant), up to 380 ml of it is collected in the drip tray [I].

After the blowing-in process, the house connection pipe is sealed again pressure-tight to min. 0.5 bar automatically.

04 Completion

For the final splicing work, the cable is removed from the blowing-in box again. For this purpose, loosen the permanent connection [C] between the pipe connection and the wall entry or the excess-length coil. The cable can be pulled out of the cable brake, and the blowing-in box can be removed from the wall. If liquid leaks out of the valve during the blowing-in process, it is caught in the drip tray [I]. This must be emptied and cleaned accordingly. If the cable length from the excess-length coil is also required, the permanent connection [J] can be loosened between the house connection and the excess-length coil, and the cable can be pulled out of the pipe.

05 Reuse

The EasyConnect blowing-in box is reusable. Before installing it again, the sponge is to be taken out of the sponge trap [F]. For this purpose, the connector above the sponge trap can be removed from the clamping fixture and moved out of the box. Removal of the securing ring allows the release ring [E] to be pressed and therefore the sponge trap to be removed. The sponge can now be removed and the components reassembled. If there is any contamination, e.g. lubricant, it must be removed and the components reassembled in a clean state.

During reassembly, ensure that the pipes are inserted up to the stop. In addition, pressure testing is to be carried out as a functional test so as to ensure that all components are properly connected to one another and that the valve opens automatically when the pressure builds up to 0.7 bar.

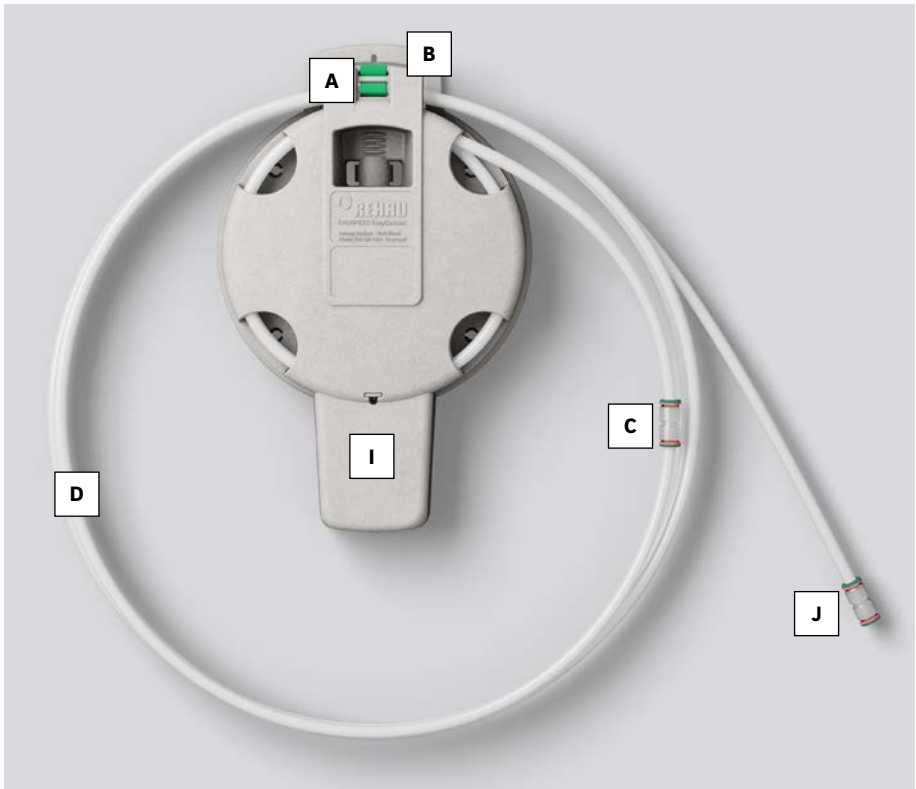


Figure 1: Front view (room side), fully installed

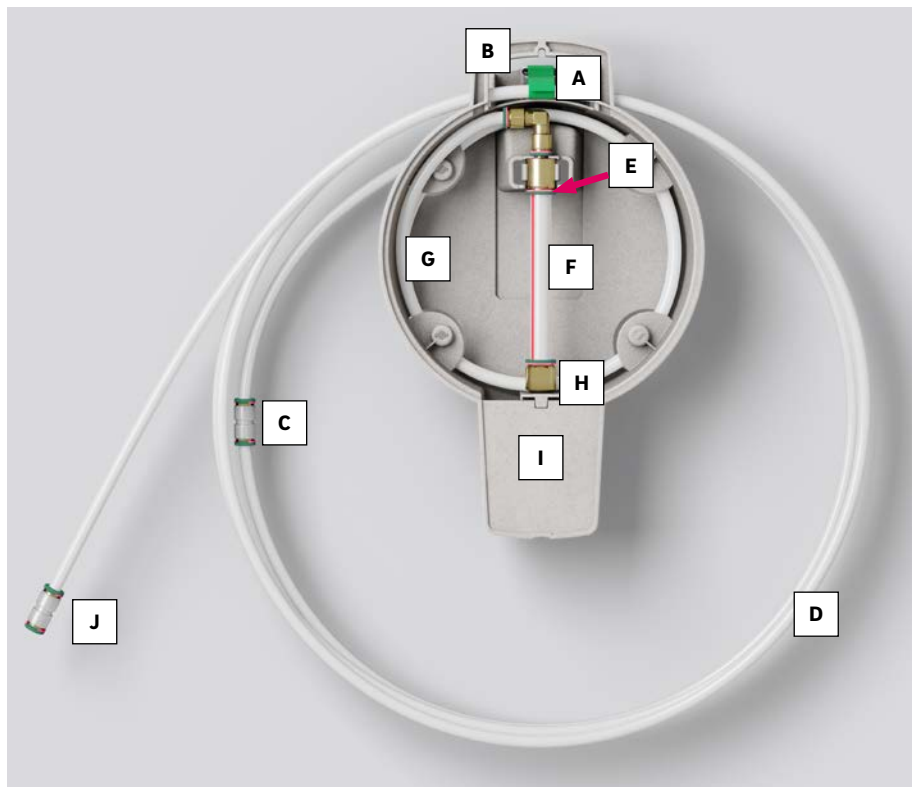


Figure 2: Rear view (wall side), fully installed

- [A] Excess-length coil clip
- [B] Fastening bracket
- [C] Pipe connection, 10 x 1.0 mm
- [D] Excess-length coil
- [E] Release ring
- [F] Sponge trap
- [G] Cable brake size 10 x 1.0 mm
- [H] Valve
- [I] Drip tray
- [J] Connector for wall entry

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