

CONNECTRAC®

Connect without core drilling

CONNECTRAC, CORE DRILLING AND TRENCHING

RSMeans Cost Analysis



RSMEANS

RSMeans is North America's leading supplier of construction cost information. RSMeans provides accurate and up-to-date information that helps owners, developers, architects, engineers, contractors and others to carefully and precisely project and control the cost of both new building construction and renovation projects. Their cost information database is exhaustive and includes numerical cost multipliers for adjusting costs based on specific geographical locations.



THE STUDY

RSMeans analyzed the costs of three different methods commonly used to provide electrical / AV / telecom receptacles in the center of a conference room located inside a building. The alternatives they considered were:

1. A core drill / poke-thru device. Scenario: a conference room located on an upper floor of a multi-story building. Some of the key installation steps are identified in the pages that follow.
2. Trenching in a floor box in existing concrete. Scenario: a conference room located in a slab-on-grade building. Some of the key installation steps are identified in the pages that follow.
3. Connectrac. Scenario: a conference room located either in a multi-story building or a slab-on-grade building. Some of the key installation steps are identified in the pages that follow.

The study showed a large disparity between the average costs of the three methods, with the Connectrac wireway alternative being far less expensive. In summary:

**Connectrac SAVES YOU 50% or more
over core drills and trenching***

*and up to 70% or more if slab x-ray is required

CORE DRILLING

WHAT MATERIALS AND LABOR GO INTO INSTALLING A CORE DRILL / POKE THRU DEVICE?

A PARTIAL LIST INCLUDES:

1. Selective demolition including dust containment.
2. Removal of carpet tile or broadloom carpet.
3. Removal of ceiling tile below floor slab.
4. Rental of core drill equipment.
5. Core drilling 3 holes (3" minimum dia. for the device plus 2 additional holes for conduits down to ceiling space below).
6. Additional selective concrete demolition.
7. The core drill poke-thru device, purchase and installation.
8. Minimal concrete repair.
9. 2 electrical pull boxes above ceiling of space, purchase and installation.
10. Conduits for both electrical and telecom (enough conduit to extend from the upper junction/pull box down through the slab to the core drill device below).
11. Electrical wiring.
12. Replacement of ceiling below slab.
13. Trim and carpet replacement on floor.
14. Final connections by electrical contractor.
15. Clean up and furniture relocating on floor and on the floor below.
16. After-hours labor and security.
17. X-ray of slab prior to locating core drills, if required.

TRENCHING

WHAT MATERIALS AND LABOR GO INTO CONCRETE SLAB TRENCHING FOR A FLOOR BOX?

A PARTIAL LIST INCLUDES:

1. Selective demolition including dust containment.
2. Removal of carpet tile or broadloom carpet.
3. Rental of concrete saw equipment.
4. Sawing/demolition of reinforced concrete slab.
5. Removal of concrete and excavated soil.
6. Removal of portion of vertical drywall (where conduits will run from above ceiling down to beneath floor slab).
7. The cast-in-place floor box device, purchase and installation.
8. Electrical conduits for both electrical and telecom (enough conduit to extend from the upper junction/pull boxes down through a vertical stud wall cavity and out beneath the floor slab to the new electrical device).
9. 2 electrical pull boxes above ceiling, purchase and installation.
10. Electrical wiring.
11. Backfill and compaction of trench with soil/sand.
12. Installation of reinforcing bars.
13. Placement of concrete in trench, finishing to match existing.
14. Patching drywall at vertical wall used as "chase" for conduits.
15. Trimming and replacement of carpet on floor.
16. Final connections by electrical contractor.
17. Clean up and furniture relocating on floor and on the floor below.
18. After-hours labor and security.
19. X-ray of slab prior to trenching, if required.

CONNECTRAC

WHAT MATERIALS AND LABOR GO INTO INSTALLING A CONNECTRAC FLOOR WIREWAY SYSTEM?

1. Removal of the carpet tile / broadloom carpet and wall base where the Connectrac will be installed.
2. Electrical pull box above ceiling of space, purchase and installation.
3. Connectrac system in length required, purchase and install as follows.
4. Removal of a portion of the wall base at this location and the cutting of a small hole in the base of the wall for installing power supply and telecom cables.
5. Installation of aluminum base track, MDF side ramps, and end transition ramps.
6. Installation of electrical device in and pulling of the flex conduit power supply up inside stud wall cavity to junction box above ceiling.
7. Placing of all telecom cables into and pulling them up inside stud wall cavity to required locations above ceiling.
8. Installation of wire management clips into track and placement of top cap..
9. Making all telecom terminations in receptacle cover.
10. Reinstallation of carpet tile / broadloom carpet and wall base.
11. Clean space as required.

