

## Technical Information

### TABLE OF CONTENTS

Frequently Asked Questions	2
Connectrac Kit Contents	7
Voice / Data Adapter Plate Kit	9
How to Calculate Power Requirements	10
Circuit Diagrams	11
Specifications—I Series	12
Specifications—M Series	14
Specifications—U Series	16
Warranty & Liability Statement	18

## Frequently Asked Questions

### General

**Q** Are connectrac systems designed for new construction or remodeling?

**A** Both! Connectrac systems are designed to be used in new construction, renovations, or modular furniture reconfigurations.

**Q** What types of flooring work with connectrac?

**A** Connectrac is designed to work primarily with broad loom carpet or carpet tiles. In certain cases, other types of flooring may be used as well.

**Q** Does connectrac comply with the Americans with Disabilities Act?

**A** Yes, the slope of our connectrac raceway systems is less than 1:12, as required by the ADA. Of course, in all installations the outlet box or modular furniture power whip connection box must be located beneath the work surface- not in the walking path.

**Q** Are connectrac systems UL and CSA certified?

**A** Yes, connectrac systems are both UL and CSA certified.

**Q** What sort of flexibility in lengths does connectrac offer?

**A** Connectrac systems come in 8 foot and 4 foot lengths. They can be field-cut to any length and can be joined together end-to-end also.

**Q** After it's installed, can I move my connectrac raceway system?

**A** Yes, connectrac systems are designed to be easily moved and changed as your needs change. The system components are simply unscrewed from the floor slab after the power and data cables are disconnected and reinstalled in their new location.

## Frequently Asked Questions

### Installation

**Q** Who installs connectrac systems?

**A** As with all electrical systems, the connectrac power conduit must be hard-wired by a licensed electrician. The rest of the components (base track and ramps, etc.) can be installed by flooring contractors, furniture installers or electricians. Typically, flooring contractors complete the installation by gluing the carpet to the raceway ramps, cut the carpet along the raceway cap and install the wall base using the template to cut the bottom edge of the base to the same profile as the raceway system.

**Q** How are connectrac™ systems attached to a floor?

**A** The connectrac components are anchored to the concrete floor slab with the supplied Tapcon® concrete anchors.

**Q** Can connectrac be installed with existing carpeting or does the carpet need to be installed after connectrac is mounted on the floor?

**A** Yes, our systems can be installed with existing carpet, provided that the carpet and carpet glue are in a condition where a portion of the carpet can be cut and lifted up. Here's the sequence: 1) identify where the connectrac system will be installed; 2) remove about 2 feet of wall base here; 3) cut the carpet along the length where the raceway will be installed; 3) lift up the carpet here; 4) anchor the raceway components to the floor slab; 5) run the cables (power/voice/data) into the stud wall cavity through a small opening made in the bottom of the wall to a junction box or existing outlet; and 6) reinstall the carpet, gluing it to the tops of the connectrac ramp areas and cutting along the raceway cap. Assuming your carpet can be lifted up, the whole process takes less than 3 hours with an electrician and a carpet installer.

**Q** What does the system look like at the wall? Is some type of wall transition adapter required?

**A** There is no special wall transition adapter needed where our connectrac raceway meets the wall. The wall base (typically rubber, vinyl or carpet) covers the small opening in the lower portion of the wall where the cables enter the stud wall cavity from our raceway. A template is provided with each connectrac kit to allow the flooring installers to cut the bottom edge of the wall base to the same profile as our raceway system.

**Q** Can I connect a connectrac individual receptacle system to an existing power outlet in our conference room?

**A** Yes, you can! Your electrician should verify that there is sufficient capacity in the circuit that serves the outlet first. Then the connectrac conduit can be "fished" up the wall and connected to the bottom of the metal outlet box located inside the wall.

## Frequently Asked Questions

### Technical

**Q** What is the height of the connect**trac** raceway? Will it go beneath modular furniture panels?

**A** The height of the installed connect**trac** raceway is less than  $\frac{3}{4}$ ", well within the adjustability range of virtually all modular furniture systems.

**Q** What is the gauge of wire used for the electrical components of connect**trac** systems?

**A** The gauge of the wires is as follows: individual receptacle system (15 amp): 3 – 12 gauge conductors; multi-circuit system (4 – 20 amp circuits): 7 – 12 gauge conductors and 1 – 10 gauge conductors.

**Q** What is the weight-bearing capacity of connect**trac** systems?

**A** The system was designed and engineered to accommodate a load of 1,000 pounds on a 4-wheel cart. That's about the greatest load we could conceive our system encountering in the typical commercial or institutional interior environment.

**Q** How many CAT -5 or CAT -6 cables will the connect**trac** raceway accommodate?

**A** The raceway track will accommodate the following number of communication cables:

Empty connect**trac** system (i.e. no power conduit in track) –

25 CAT-6 cables  
30 CAT -5 cables

Connect**trac** system with power conduit –

18 CAT-6 cables  
25 CAT -5 cables

**Q** What type of connections (e.g. LAN, phone, computer video) does the Individual Receptacle System accommodate?

**A** Our Individual Receptacle System provides 2 15-amp power receptacles and between 2 and 4 voice/data jacks. Because our adapter plate consists of a standard size opening (1.4" x 2.7"), up to 4 - RJ-45 and/or RJ-11 jacks can be accommodated by using an adaptor plate provided by your voice/data jack manufacturer (e.g. Panduit, Amp, Avaya).

If you need a VGA connector in addition to a LAN and a phone jack, you may have to pull one of the 3 lines up into and terminate in the furniture.

## Frequently Asked Questions

### Technical - cont'd

**Q** Is it okay to place telecommunications cabling alongside the power cables in the connectrac raceway?

**A** Yes, according to the Commercial Building Standard for the Telecommunications Industry Association, it is acceptable to locate communications cables along with properly shielded power cables (such as the connectrac power conduit) in the same channel or wireway. This is the standard means of installing such cables in virtually all modular furniture systems throughout the country.

**Q** Why is the connectrac raceway cap exposed?

**A** The cap (which runs the length of the connectrac system) is designed to be removed for ease of changing /installing data cables.

**Q** Can the connectrac raceway cap be covered with carpet?

**A** The connectrac system has two different cap options. The carpet cap option allows the installation of your own strip of carpet and the resilient strip option comes complete with a textured rubber cover strip in one of ten standard Roppe® colors which is installed on top of the linear cap.

**Q** How many workstations can be supplied by a single connectrac modular furniture conduit system?

**A** Our connectrac modular furniture conduit systems provide 4 - 20 amp circuits. The number of workstations which can be served depends on the power requirements at the individual workstations. You should contact your modular furniture dealer for help determining your specific requirements.

## Frequently Asked Questions

### Purchasing

**Q** Where can I purchase connectrac?

**A** You can purchase connectrac systems from your local contract furniture dealer or electrical distributor. If you don't have access to a contract furniture dealer or electrical distributor, please contact us at 877.480.5637.

**Q** What is the lead-time for ordering connectrac?

**A** Orders placed by noon central time are typically shipped out the same day. Our standard shipping is FedEx ground, but expedited shipping is available.