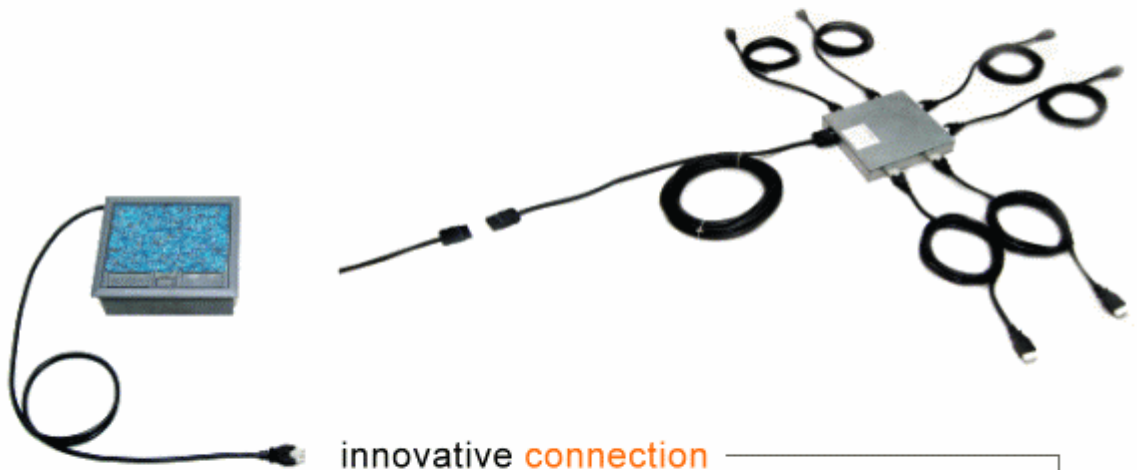


# ZoneEx<sup>®</sup>

Modular Power Extension System

Power Extension ZE series  
Service Floor Box FX series



innovative connection  
no cutting / no sheath stripping  
/ no junction box inserting

## Netfloor ZoneEx

### Innovative Connection ----

**Netfloor ZoneEx** (Zone Power **Ex**ension) **ZE400** series is a modularized power distribution system which provides instant connection and extension power from the building electric panel, to workstation and end user electricity facilities. The system features faster and easier connection, and offers higher safety level and efficiency because it has effectively eliminated job site cutting, sheath striping by the installers.

### Concept and Fulfillment:

1. None job site cutting, no sheath striping.
2. No embedding: Cable distribution neither inside the walls, partitions, nor concrete slab.
3. No overhead (hiding over drop ceiling) cable distribution.

### Applications: zonal power extension for

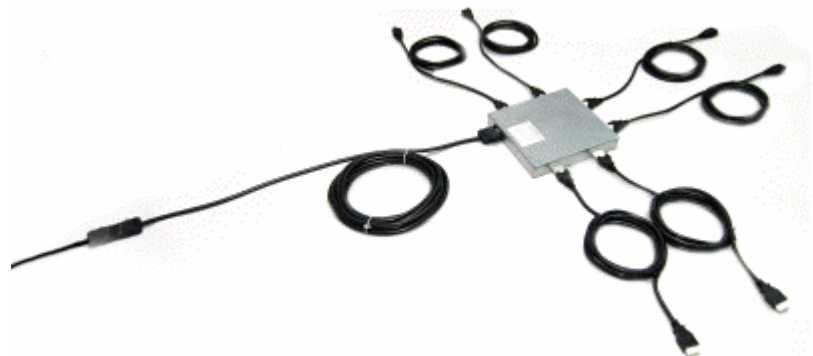
1. Service floor boxes.
2. Connecting onto workstations.
3. **UFAD** (Under-Floor Air Distribution) modules

### Features & Benefits

1. **Modular:** Each Zone Box contains 6 extension sockets, serving office space at zonal basis.
2. **Time/labor saving, high level safety:** No traditional job site installation, such as cutting cable to length, striping cable sheath, inserting cable to junction box, connecting individual wires, are needed.
3. **Changeability:** Modularized at highest changeability. Re-arrangement, re-location, upsizing or downsizing of power supply are proceeding at ground, at fast and minimum interference to normal operation at the working environment.
4. **Overall cost saving:** Cable running under access floor which contributes considerable savings --  
(1) building's beginning costs  
(2) future maintenance and renovation or re-organization costs.
5. **Accommodate** all types of access floor systems such as conventional 600 x 600 mm module, 500 X 500 mm module, as well as all cable management floors with or without cable trenches.
6. **100% re-usable and environment-friendly**  
In the event of renovation and re-location, all ZoneEx systems including Zone Box, connection and extension cables are 100% re-usable. This is a long-term saving benefits and, most importantly, a smart investment when taking into consideration of no future wastage (100% re-usable) and least contamination to the earth (environment-friendly).

#### ZoneEx composition:

The whole system is for instant plug and play, 100% re-usable, and environment-friendly



## I. Main Components

**ZoneEx** system is comprised of three main components

1. 5-pole connection cable and 5-pole extension cable: (1) to connect at the building electric panel at each floor, (2) to extend power to Zone Box.
2. Zone Box: a mid-way terminal with six 3-pole socket ports for connection by 3-pole extension cables to floor box.
3. 3-pole extension cable: plug at Zone Box, to extend power to service floor box, UFAD modules, or connect onto desktop.

### Zone Box (ZE441)

One built-in 5-pole plug receiving power from 5-pole extension cable.  
Six built-in 3-pole sockets supplying power to 3-pole extension cables.  
Coverage: for pure supply to service floor box, each Zone Box serves avg. 6~12 workstations.



### 5-Pole Cable

**5-pole extension cable -- socket/plug (ZEC451):**

Standard length 3, 8, 12 meters as extension from electric panel to Zone Box.

**5-pole connection cable -- socket (ZEC453):**

Standard length 50 cm with socket, free other end, to install at electric panel for power extension via ZEC451 to Zone Box.



Extension cable plug/socket

### 3-Pole Cable

**3-pole extension cable -- socket/plug (ZEC431):**

Standard length 3, 5, 10 meters for extension from Zone Box to service floor box, UFAD modules.

**3-pole connection cable - plug (ZEC432):**

Free other end: to extend from Zone Box onto workstation, partition, and etc for connection.



Connection cable free other end

### Floor Box with extension cord: FX75 / FX60 / FXB605

Service floor box with 3 meter extension cord to plug at Zone Box, as instant power supply to workstations.

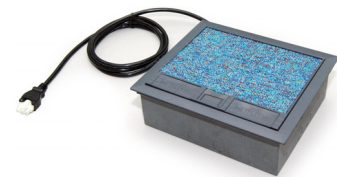
**FX75:** 75 mm height box of poly-carbonate lid, re-enforced by 3.5 mm thick galvanized steel plate underneath.

Max voltage 240

**FX60:** same contents as FX75, except height 60 mm and stainless steel lid.

Max voltage 240.

**FX605:** voltage 120, height 60 mm, stainless steel lid.



### Floor Box without extension cord SB75 / SB60 / SB605

**SB75:** contents and function same as FX75, without extension cord.

**SB60:** contents and function same as FX60, without extension cord.

**SB605:** contents and function same as FX605, without extension cord.

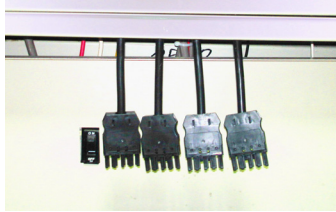


## II. ZoneEx Plan - Instant Connection & Supply

ZoneEx Plan: Electric Panel ► 5-pole extension cable ► Zone Box ► 3-pole extension cable ► service floor boxes / end user electric/electronic facilities

### 1. Starts from electric panel

The modularized ZoneEx plan starts from the electric panel at each floor of a building.



- A. 5-pole connection cables – socket ZEC 453 (standard length 50 cm) connects at electric panel. Each connection cable extend and serves one Zone Box individually.
- B. 5-pole extension cable plug/socket ZEC451 (standard length 12, 8, 3 meters): connect at ZEC 453, and to extend to Zone Box.

### 2. ZoneEx for general office

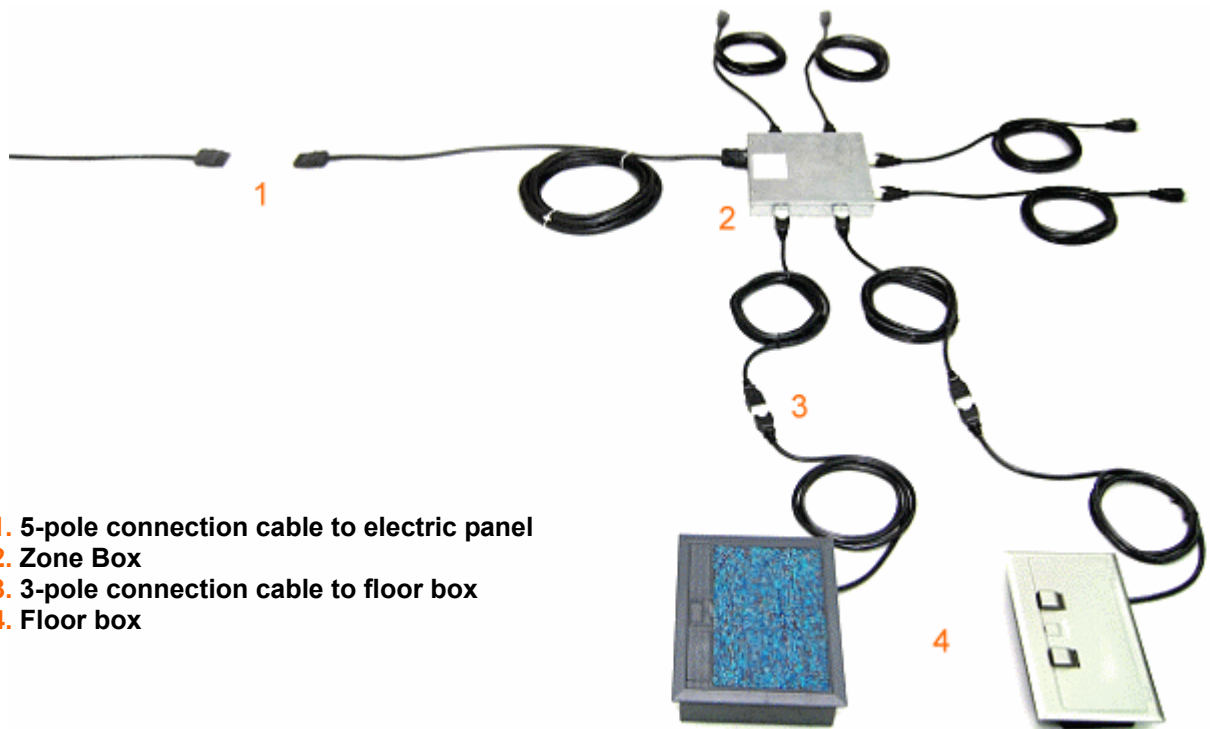
#### Capacity of ZoneEx -- power extension to workstations and office

**Capacity:** One 5-pole extension cable extends to 1 Zone Box, which to serve 6 floor boxes.

**Zone Box:** each Zone Box has six 3-pole sockets, to accommodate 6 floor boxes. Each floor box: has 4 sockets, normally to serve 1 or 2 workstations depends on the user's capacity requirement. Based on 1 floor box serves 2 workstations, 1 Zone Box will be capable to serve 12 workstations. Assume each workstation shares 8 sq. meters office space (including aisle and meeting room), coverage of one ZoneEx will be 96 sq. meters.

For a general guideline, per ZoneEx serves avg. 50 ~ 100 sq. meters of office space.

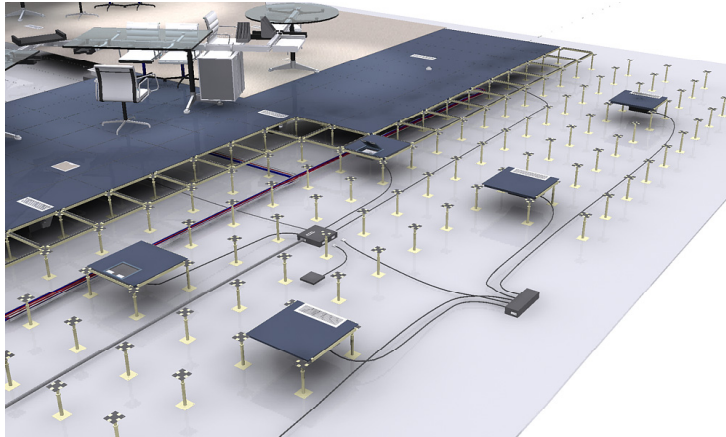
For example, in planning an 1,000 sq. meters office, may require 10 up to 20 ZoneEx, which extend power for 60 up to 120 service floor boxes depending on density of the workstations.



- 1. 5-pole connection cable to electric panel
- 2. Zone Box
- 3. 3-pole connection cable to floor box
- 4. Floor box

### 3. ZoneEx for Ensipire UFAD (Underfloor Air Diffusion System) modules

ZoneEx is also ideal as instant power supply for UFAD modules, such as power supply for micro control set, powered fan, and etc.

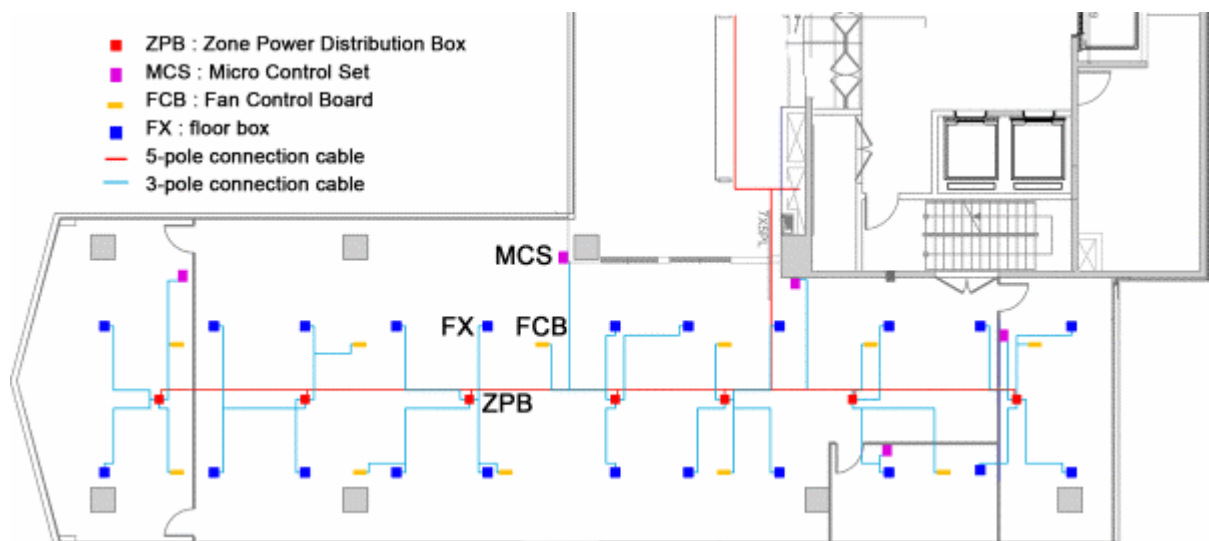


### 4. ZoneEx plan for workstations + Ensipire UFAD -- an integrated solution

The diagram below is an illustration how ZoneEx works as integrated solution for instant power extension for workstations and UFAD.

Coverage: When services including workstations and UFAD (Under-Floor Air Distribution) per ZoneEx may cover avg. 30 ~ 60 sq. meters

**Zone Power Extension Plan for Workstations plus UFAD**



### III. ZoneEx accommodation -- all type of Access Floor systems

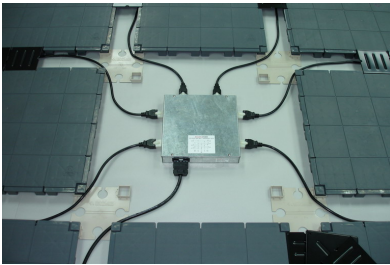
Zone Box: installing under access floor panel, or inside the panel.

Extension cables: running inside cable trenches or under access floor void.

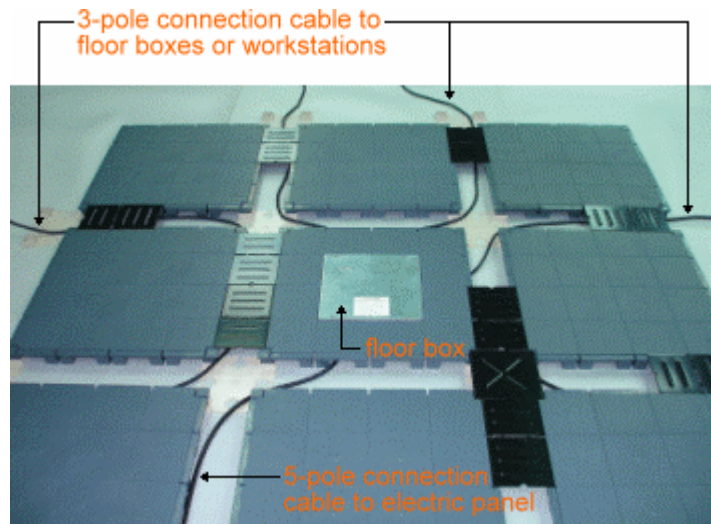
#### 1. Netfloor Systems

- A. **Netfloor ECO series -- low-profile** of FFH (finish floor height) 40, 50, 60 mm

Zone Box dimension: 251 x 251 mm \*\*, same size as 4 piece sub-panels at middle of the UniPanel (main panel).



Zone Box installed just by replacing 4 sub-panels at middle of UniPanel



- B. **Netfloor Cable Management Access Floor Systems**

For all Netfloor systems at FFH greater than 65 mm

installed under UniPanel of Netfloor Cable Management Flooring Systems --

[Camass](#), [CamassCrete](#), [FreeMount](#) finish floor height: 65 mm ~ 200 mm



The 40 mm height Zone Box feature better space-saving, to enable access floor at FFH lower at 65 mm

#### 2. Conventional Access Floor Systems at clearance under access floor panel greater than 40 mm affixing to sub-floor --

- A. When installing under access floor panel, it is required to affix Zone Box at floor channels (or wood veneers)
- B. Drill & fix channels at sub-floor to secure Zone Box preventing from moving.



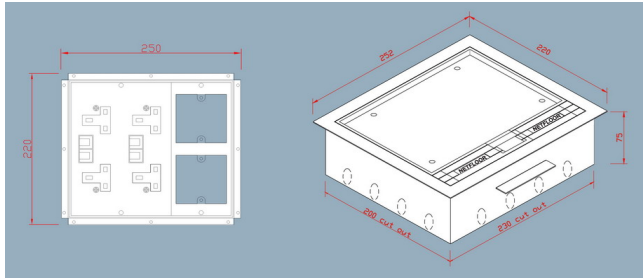
\*\* Special run Zone Box size 226 mm X 226 mm is available to accommodate Netfloor [Grand Square](#) system, by replacing one piece Top-Panel, to accept the Zone Box for ZoneEx extension.

## IV. Service Floor Box

### 1. FX series: floor box with connection cord

#### FX75:

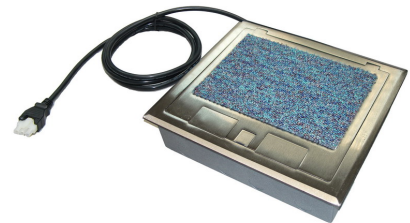
75 mm height floor box with connection cord  
3-gang floor box, re-enforced poly-carbonate/steel plate lid  
Voltage: MAX 240, 4 sockets + 4 data jacks



FX75

#### FX60:

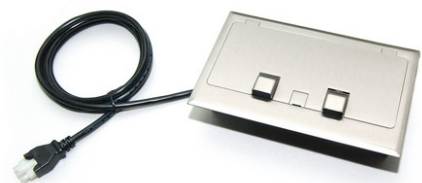
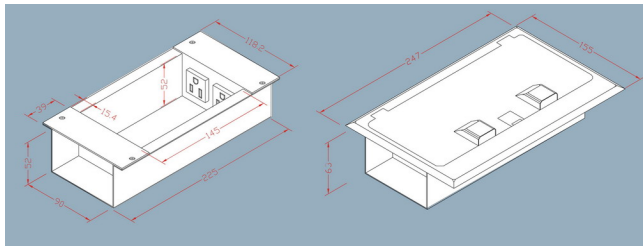
same function and contents as FX75 except height (60 mm) and cover lid (made of stainless steel).  
3-gang floor box with stainless steel lid  
Voltage: MAX 240, 4 sockets + 4 data jacks.



FX60

#### FX605:

60 mm height floor box with connection cord  
2-gang floor box, stainless steel lid.  
Voltage: MAX 120 volts, 2 socket + 3 data jacks



FX605

### 2. SB series: floor box without connection cord contents, capacity and size same as FX series

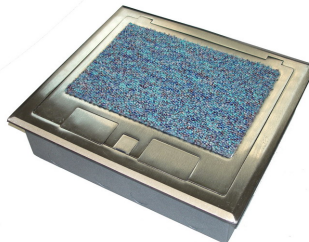
#### SB75

75 mm high



#### SB60

60 mm high



#### SB605

60 mm high





**Specifications**  
**System: Netfloor ZoneEx ZE400 series**

Part No.	Description	Dimensions	Remarks
ZE441	Zone Extension Box one 5-pole plug for power-in six 3-pole sockets for power-out	Size: 251 mm X 251 mm Height: 40 mm	16A, 220V
ZEC451	5-pole extension cable plug/socket	Standard length 3 m, 8 m, 12 m	16A, 220V
ZEC453	5-pole connection cable - socket, free other end	Length 50 cm, for connection at electric panel	16A, 220V
ZEC431	3-pole extension cable plug/socket	Standard length 3 m, 5 m, 10 m	16A, 220V
ZEC432	3-pole connection cable - plug, free other end	Standard length 3 m, 5 m, 10 m	16A, 220V
FX75	Floor box 75 mm height, poly-carbonate lid.	250 x 220 x 75 mm 3 meter extension cord with plug	4 x 220V, 13 A sockets 4 data/voice jacks
FX60	Floor Box 60 mm height stainless steel lid.	250 x 220 x 75 mm 3 meter extension cord with plug	4 x 220V, 13 A sockets 4 data/voice jacks
FX605	Floor Box 60 mm height stainless steel lid	247 x 155 x 60 mm 3 meter extension cord with plug	2 x 110V sockets 3 data/voice jacks
SB75	Same as FX75 except without extension cord.	250 x 220 x 75 mm no extension cord	4 x 220V, 13 A sockets 4 data/voice jacks
SB60	Same as FX60 except without extension cord.	250 x 220 x 60 mm no extension cord	4 x 220V, 13 A sockets 4 data/voice jacks
SB605	Same as FX605 except without extension cord.	247 x 155 x 60 mm no extension cord	2 x 110V sockets 3 data/voice jacks

**In pursuing product improvement, the manufacturer reserves the rights to change specifications without prior notice.**

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