

Hubbell Connexion Zone Distribution System

Increasing the value of your infrastructure

HUBBELL

Zone Distribution Box



Splitter



Raised Access Floor Box



Furniture Feed



Sold by:



Nobody delivers like Hubbell Commercial Solutions



Hubbell CONNEXION Zone Distribution System

Effective utilization of open space depends on the availability of power, communications and the ability to reconfigure the space with minimal down time. As infrastructure requirements change, conventional wiring systems fail to provide the flexibility required to support constantly changing personnel and ever evolving technologies. The Hubbell CONNEXION Zone Distribution System is a factory assembled, plug and play, modular system that delivers power and data to workstations, in raised floor installations. This unique system increases the value of the infrastructure and meets the challenges posed by new construction and renovation in commercial offices, retail outlets and educational facilities. By improving cable management, enhancing flexibility, and reducing administration expense, the CONNEXION Zone Distribution System allows for power and communications to be located where needed for efficient relocations and upgrades.



Zone Distribution Box

The zone distribution box (ZDB) is the conversion point between hard wiring (conventional pipe and wire) done by the on-site electrical contractor and the pre-manufactured zone distribution system.



Extender Cables

The extender cable is the link between the zone distribution box and point of use furniture feeds and raised access floor boxes. Extender cables carry all 8 conductors to every point in the zone offering the greatest degree of circuit capacity – all 8 wires go everywhere!



Splitter

A “one-in” “three-out” device that allows power to be distributed to more than one location, without running cables back to the ZDB. This allows the potential to power up more than one furniture feed or floor box off a single ZDB feed.

HUBBELL Advantage

■ Best in Class Products

All 8-wires go everywhere! This provides future capacity to reconfigure quickly and safely.

■ Ease of Installation

Connexion makes relocations and upgrades quick and efficient by reducing the expense of administration.

■ Application Solutions

Hubbell offers comprehensive technical support including CAD drawings, specification text, data sheets, and bid submittal preparation support.



Furniture Feed

Furniture feed boxes transition the Hubbell CONNEXION Zone Distribution System with any other 8-wire partitioned modular furniture or cubicle. The furniture feed can also be used as a junction box to convert zoned power back to conventional wiring.



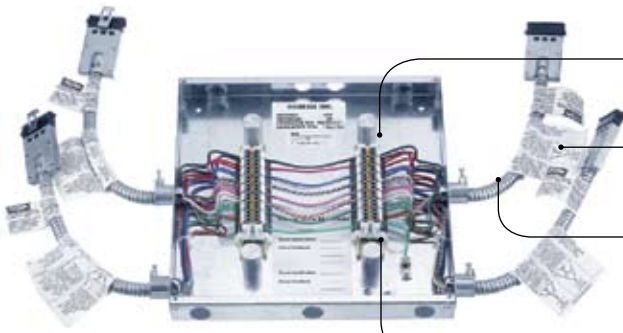
Pre-wired and AFB Series Raised Access Floor Boxes

The Hubbell AFB Series of recessed, stamped steel boxes are suitable for the majority of raised floor applications providing the flexibility, accessibility, capacity and depth profiles needed. These multi-service boxes are available in four or 8-gang options in a variety of power configurations. They utilize Hubbell modular screw type plates and open systems modular connectivity face plates for delivering power, voice, and data. A single reversible metallic cover/flange assembly mounts to all box sizes and has been designed with a large cable door to provide ample room for exiting cords.



Hubbell Connexion Zone Distribution System

Zone Distribution Box (ZDB)



Standard DIN rail mount terminal blocks provide field modification capability.

Circuit wiring diagram label.

Cable retainer for superior strain relief.

Standoff posts provide additional floor support.

- Pre-wired in either a 4/2/2 (4 hots, 2 neutrals, 2 grounds) or a 3/3/2 (3 hots, 3 neutrals, 2 grounds).
- Field Terminal blocks enable the 4/2/2 system to expand to 16 circuits, and the 3/3/2 to 12 circuits.
- Low profile 1¾"H box design for shallow raised floors.
- Four extra flexible armored whips for maximum strain relief and cable routing.
- Durable 16-gauge galvanized steel with two power entries and seven ½" N.P.T. knockouts to accommodate future expansions.
- For use in environmental air handling spaces other than ducts or plenums.

Extender Cables



Standard lengths include 5, 10, 15, and 20-feet. Custom lengths available upon request.

Extra flexible armored cable.

422 and 332 extender cables are keyed differently to prevent interconnection.

Quick connect ends for ease of administration.

- Pre-wired in either a 4/2/2 (4 hots, 2 neutrals, 2 grounds) or a 3/3/2 (3 hots, 3 neutrals, 2 grounds).
- The gender on the connectors are typically female to female, however, male to open and female to open versions are also available.
- #10 AWG Grounded Conductor (shared neutral) #12 AWG copper (dedicated neutral).
- Phase and Bonding Conductors #12 AWG copper.
- For use in environmental air handling spaces other than ducts or plenums.

Splitter Module

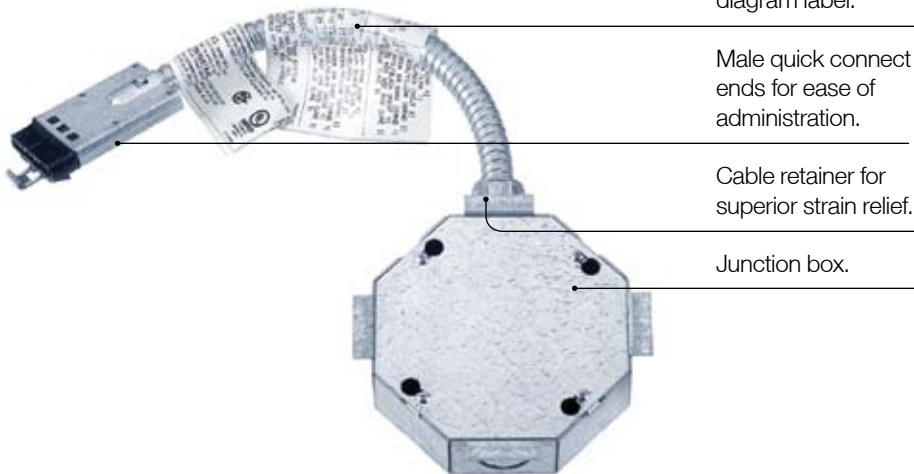


Integrated cable retaining clips provide a secure connection and strain relief when routing cables.

422 and 332 extender cables are keyed differently to prevent interconnection.

- Available to distribute 4-circuits 4/2/2 (4 hots, 2 neutrals, 2 grounds) or 3-circuits 3/3/2 (3 hots, 3 neutrals, 2 grounds).
- 4-port device with one male port receiving power and three male ports distributing power "one-in" "three-out".
- The splitter receives circuits from the ZDB by means of a female to female extender cable.
- For use in environmental air handling spaces other than ducts or plenums.

Furniture Feed Box



Circuit wiring diagram label.

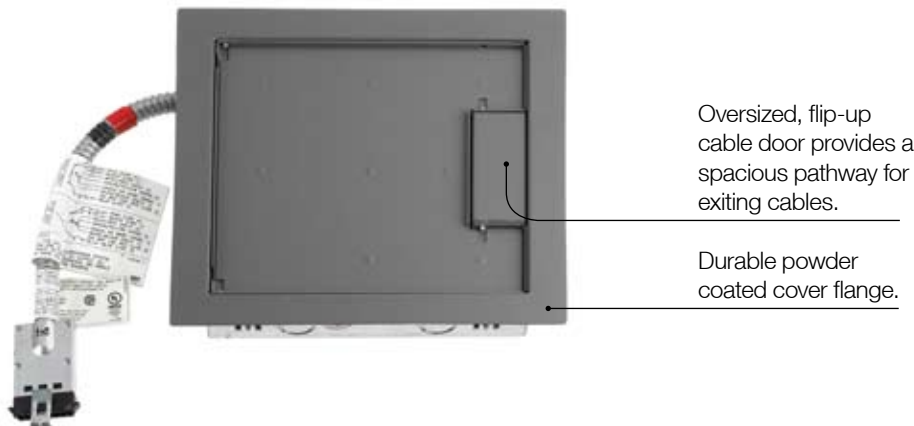
Male quick connect ends for ease of administration.

Cable retainer for superior strain relief.

Junction box.

- Pre-wired in either a 4/2/2 (4 hots, 2 neutrals, 2 grounds) or a 3/3/2 (3 hots, 3 neutrals, 2 grounds).
- Furniture Feed Boxes allow the Hubbell CONNEXION Zone Distribution System to interface with any other 8-wire partitioned furniture or cubicle.
- Utilizes a standard Male to Open 15" extra flexible armored cable whip for maximum strain relief and cable routing.
- For use in environmental air handling spaces other than ducts or plenums.

Pre-wired Raised Access Floor Boxes



Oversized, flip-up cable door provides a spacious pathway for exiting cables.

Durable powder coated cover flange.

- Delivers power and voice/data to the end user at floor surface level for easy plug-in accessibility and "plug and play" administration.
- Available in 4 and 8-gang for deep and shallow raised floors.
- Pre-wired versions are available to distribute 4 circuits (4/2/2) or 3 circuits (3/3/2).
- Internal barriers separate power & data.
- Provides for maximum wire capacity.
- Hinged clamping arms provide easy installation from above without having to remove the cover.

AFB Series Raised Access Floor Boxes









Reversible single piece cover/flange allows provision for carpet inlay.

16-gauge galvanized stamped steel bases.

Adjustable hinged clamping arm simplifies installation.

- Utilizes Hubbell modular screw type plates, and open systems modular connectivity face plates to deliver power and voice/data to the end user
- One reversible metallic cover/flange assembly mounts to all box sizes for both carpet and tile applications.
- All raised floor boxes use the same cover to provide a consistent appearance.
- All Connexion components are UL listed as a "Manufactured Wiring System" conforming to UL-183 Standard for Safety. Being a "Manufactured Wiring System" allows the end user to disconnect and reconnect pre-manufactured products.
- For use in environmental air handling spaces other than ducts or plenums.

Hubbell CONNEXION Zone Distribution System

	Zone		Splitter Modules		
	Distribution Boxes	Catalog Number		Catalog Number	
	422 System (2+2)	PDCS42222	422 System	SPLITTER422	
	422 System (3+1)	PDCS42231	332 System	SPLITTER332	
	332 System	PDCS332			
	Extender Cable		Extender Cable		
	Female To Female	Catalog Number	Female To Open	Catalog Number	
	422 System	EXT422xxFF8W	422 System, 15in	EXT42201FO8W	
	332 System	EXT332xxFF8W	332 System, 15in	EXT33201FO8W	
	* replace xx with "05" for 5ft, "10" for 10ft, "15" for 15ft, and "20" for 20ft. Custom lengths are available upon request.		422 System, 15ft	EXT42215FO8W	
			332 System, 15ft	EXT33215FO8W	
	Extender Cable		Furniture Feed		
	Male To Open	Catalog Number		Catalog Number	
	422 System, 15in	EXT42201MO8W	422 System	FIJB422	
	332 System, 15in	EXT33201MO8W	332 System	FIJB332	
	422 System, 15ft	EXT42215MO8W			
	332 System, 15ft	EXT33215MO8W			

Pre-Wired Raised Access Floor Boxes

Step 1 – Select a Raised Floor Box Series

Box Series	Description	Dimensions	Cubic Inch Capacity	Conduit Knockouts
AFB301	4-Gang Deep w/ Cover	10.00"L x 10.00"W x 4.0" H	4 x 29.5 (483.0)	½", ¾", 1", 1 ¼" N.P.T.
AFB401	4-Gang Shallow w/ Cover	10.00"L x 10.00"W x 2.63" H	4 x 25.5 (418.0)	½", ¾" N.P.T.
AFB501	8-Gang Deep w/ Cover	10.00"L x 10.00"W x 5.13" H	4 x 49.5 (811.0)	½", ¾", 1", 1 ¼" N.P.T.

Step 2 – Use Device Selection Chart to Configure Gangs

Step 2A	If customer needs the 4-gang deep box:	(Configured Catalog Number)	<table><tr><th colspan="2">Device Selection Chart</th></tr><tr><th>Catalog Letter</th><th>Description</th></tr><tr><td>A</td><td>Line 1, 20A Duplex</td></tr><tr><td>B</td><td>Line 1, 20A, IG Duplex</td></tr><tr><td>E</td><td>Line 2, 20A Duplex</td></tr><tr><td>F</td><td>Line 2, 20A, IG Duplex</td></tr><tr><td>I</td><td>Line 3, 20A Duplex</td></tr><tr><td>H</td><td>Line 3, 20A, IG Duplex</td></tr><tr><td>O</td><td>Line 4, 20A Duplex</td></tr><tr><td>P</td><td>Line 4, 20A, IG Duplex</td></tr><tr><td>Z</td><td>Unpopulated Gang</td></tr></table>	Device Selection Chart		Catalog Letter	Description	A	Line 1, 20A Duplex	B	Line 1, 20A, IG Duplex	E	Line 2, 20A Duplex	F	Line 2, 20A, IG Duplex	I	Line 3, 20A Duplex	H	Line 3, 20A, IG Duplex	O	Line 4, 20A Duplex	P	Line 4, 20A, IG Duplex	Z	Unpopulated Gang
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Z	Unpopulated Gang																								
Step 2B	Choose 422 or 332 System {4 = 422, 3 = 332}	AFB301																							
Step 2C	Gang 1 - Configure using selection chart	AFB3014																							
Step 2D	Gang 2 - Configure using selection chart	AFB3014A																							
Step 2E	Gang 3 - Configure using selection chart	AFB3014AE																							
Step 2F	Gang 4 - Configure using selection chart	AFB3014AEH																							
		AFB3014AEHZ																							

Unloaded Raised Access Floor Boxes

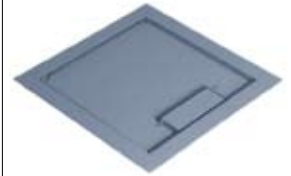


Raised Access Floor Boxes

	Catalog Number
4-Gang – Deep	HBLAFB301BASE
4-Gang – Shallow	HBLAFB401BASE
8-Gang – Deep	HBLAFB501BASE

Steel Cover Flange

	Catalog Number
Gray	HBLTCGNT
Black	HBLTCGNTBK



Hubbell - Screw Type Face Plates



	Catalog Number
Hubbell 6-Port	HBL317SBK
Hubbell INFINEStation Module	HBLIMFSBK
Duplex Opening	HBLST302SBK*
Style Line Rectangular	HBLDE301SBK*

	Catalog Number
Single Opening for 20A Twist-Lock® (1.56" Diameter)	HBLTL318SBK*
Single Recptacle Opening (1.39" Diameter)	HBLTL319SBK*
Toggle	HBLTO310SBK*
Blank	HBLBL300SBK*



Open Systems - Screw Type Face Plates



	Catalog Number
Ortronics Series II *	HBLOR306BK
Ortronics TracJack	HBLORT322SBK
Systimax (Avaya) *	HBLLT309SBK
Panduit Minicom Frames *	HBLPA308SBK
Simon MAX Series *	HBLSI315SBK

	Catalog Number
Simon CT Series *	HBLSI305SBK
ADC/Krone Leviton Allen Tel ICC	HBLKR314SBK*
AMP ACO Series	HBLAM303SBK*
AMP 110 Series	HBLAM313SBK*
NORDX For use with Nordx Cat. 5 Jacks only, for Cat. 6 use the Hubbell HBL317SBK	HBLNO309SBK*



* Catalog number indicated is black, replace "BK" with the following to designate color:
"GY" for Gray, "WA" for White, "I" for Ivory.

Connexion-Wiring Schematics

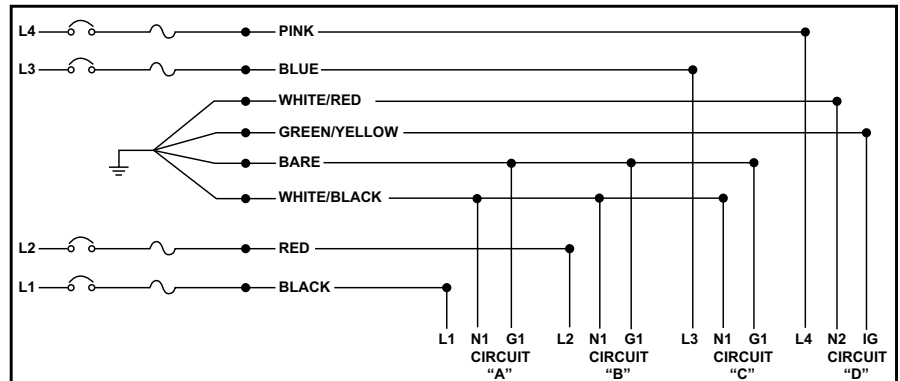
The CONNEXION System is offered in three different 20A per circuit wiring types to support the unique requirements of your infrastructure. The basic system has the capacity of delivering up to eight wires throughout the network consisting of hots, neutrals, grounds, and isolated grounds.

4/2/2 System Configuration (4 Hots, 2 Neutrals, 2 Grounds)

3 + 1 Wiring Configuration

Appropriate in areas where moderate amounts of sensitive equipment are used, and where separation from other circuits and isolated grounding are required.

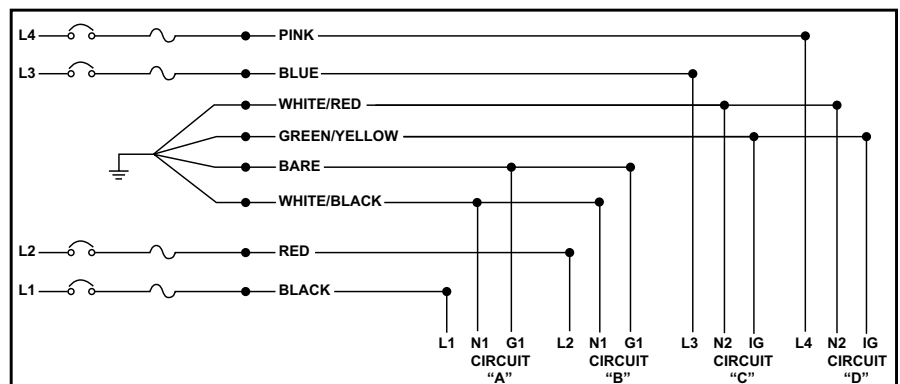
- 3 circuits share #10 AWG neutral to manage harmonics for general purpose use
- 1 isolated ground circuit for sensitive equipment
- Component Rating: 20 amperes at 120/208 or 120/240 volt
- 8-Wires (4 Hots, 2 Neutrals, 2 Grounds)



2 + 2 Wiring Configuration

Appropriate in areas where a high concentration of sensitive equipment (computers, printers) is needed and minimal amounts of conventional equipment exist.

- 2 circuits share #10 AWG neutral to manage harmonics for general purpose use
- 2 isolated ground circuits for sensitive equipment
- Component Rating: 20 amperes at 120/208 or 120/240 volt
- 8-Wires (4 Hots, 2 Neutrals, 2 Grounds)



3/3/2 System Configuration (3 Hots, 3 Neutrals - 2 Grounds)

2 + 1 Wiring Configuration

Appropriate where either a 120/240 volt or 120/208 volt 3Ø Y power distribution system exists and separate neutral conductors are desired.

- 2 circuits for general purpose use
- 1 isolated ground circuit for sensitive equipment
- Each circuit has its own neutral to manage harmonics
- Component Rating: 20 amperes at 120/208 or 120/240 volt
- 8-Wires (3 Hots, 3 Neutrals, 2 Grounds)

