HUBBELL® EDUCATION
Application Guide

HUBBELL
The Education Connection

HUBBELL®
Wiring Systems

Hubbell – The Education Connection

Table of Contents
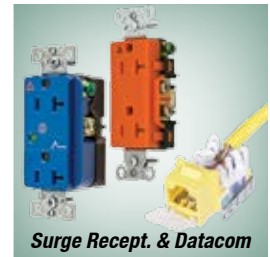
Watertight Wiring Devices

Raceway & Sensors

SystemOne Boxes & FRPT

Surge Recept. & Datacom

Cable Protection

Wiring Systems

For complete listing of Hubbell products see our full line catalogs.   www.hubbell-wiring.com

Hubbell Solutions for Education Facilities

The need for technologically advanced, cost-effective, safe and long-lasting facilities has today's schools and universities faced with a new reality in planning and carrying out new and retrofit facility projects. Today's education facilities must take into account several factors during construction and renovation. From classrooms and learning spaces, to administration and facility operations, Hubbell Wiring Systems has the solutions to help education facilities meet these key challenges.

Effectively Delivering Power, Data and Audio/Video (AV)

Today's education facilities need to ensure effective power, data and AV delivery to support everything from online e-learning, interactive audio/video and multimedia video presentations, to real-time delivery of the latest research information and enhanced communication—all of which has become vital to modern teaching, learning and decision making.

Reducing Upfront and Long-term Facility Costs

When updating inadequate facilities, schools and universities need to reduce initial upfront and long-term costs by ensuring that projects are completed quickly and efficiently. At the same time, planning new and retrofit projects requires solutions that enable lower maintenance and operating costs over the life of the facility.

Maintaining Energy Efficiency and Sustainability

To further reduce operating costs, education facilities administrators and designers are thinking long-term, striving for energy efficiency. The use of energy-saving technologies including open space environments that increase daylight and data center designs for improving airflow are just some of the ways education facilities can ensure more energy efficient, sustainable facilities.

Ensuring Maximum Safety and Durability

Education facilities are demanding environments where maintaining safety for both students and staff is critical. New and retrofit projects therefore require devices that ensure safety, are durable and impact resistant to withstand everyday use, and provide reliable, long-lasting performance.

For more than 100 years, Hubbell has provided high-performance, reliable solutions for primary, secondary and higher education facilities. Only Hubbell has the comprehensive line of wiring devices to help today's educational facilities effectively deliver power and technology, reduce costs and ensure maximum safety.

| Audio/Visual | Safety | Energy Savings | Sustainability | Durability |

HUBBELL®
Wiring Systems

Power, Data and Audio/Video Delivery

Technology is helping engage students, improve teaching, and facilitate communication. Hubbell's power, data and AV delivery solutions support everything from smartboards and projector systems, to computers and networking equipment.

- Multimedia Audio/Video connections and enclosures
- Copper and fiber network cable and connectivity
- Data center and cable management solutions

Installation Efficiency

Hubbell has a wide range of solutions specifically designed to provide efficient installation, deployment and replacement that ultimately help schools complete new and retrofit projects faster while reducing overall costs.

- Pre-connectorized wiring devices
- Plug-n-play AV assemblies
- Pre-wired raceway systems

Wiring Systems
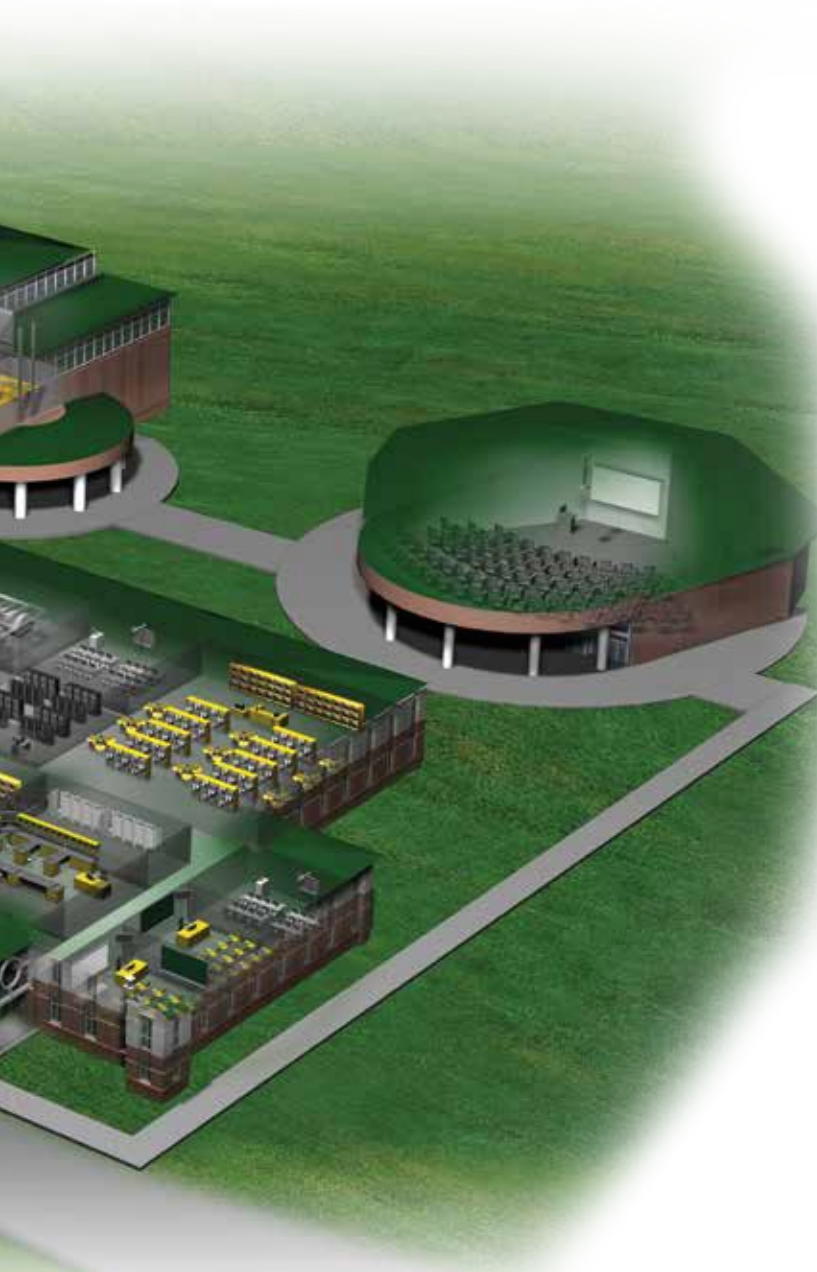
Energy Efficiency

Modern education facilities incorporate new technologies such as energy efficient lighting controls, reducing energy consumption and costs.

- Wired and wireless ceiling and wall-mount occupancy sensors
- Daylight harvesting sensors
- Data center airflow management solutions

Safety and Durability

Students and personnel need to be protected from the hazards of electricity, while secondary educational facilities may encounter intentional or unintentional damage. To reduce risk, solutions need to provide reliable safety, protection and durability.

- Impact and tamper-resistant solutions
- GFCI, isolated ground and surge protection devices
- Weatherproof, watertight and locking devices

Power, Data and Audio/Video Delivery

At the university level, advanced high-speed technology is broadening access through online courses, facilitating research, improving administrative operations, attracting and retaining students.

- High-speed copper and fiber network solutions
- Advanced data center and cable management solutions
- Multimedia and audio/video systems

Installation Efficiency

With solutions that offer fast, efficient installation of power, data and AV connections, Hubbell enables today's college and university facility departments to maximize investments in building infrastructure during new and retrofit construction projects.

- Pre-fabricated, pre-terminated wiring solutions
- Pre-wired metallic raceway
- Plug-n-play data center solutions

HUBBELL
Wiring Systems

Energy Efficiency

Many colleges and universities are striving for maximum energy savings and sustainability, as evidenced by the growing number of institutions acquiring various levels of LEED certification.

- Occupancy and daylight harvesting sensors
- Data center space savings and airflow management

Safety and Durability

Residence halls and public spaces require solutions that prevent electrical shock and trip hazards, while harsh outdoor stadium environments, food service, medical and science facilities require durable, reliable devices.

- Harsh environment and watertight devices
- Surge protection and motor disconnects
- Safe temporary power solutions

Classrooms and Learning Spaces

Today's classroom offers a new type of learning environment with educators using state-of-the-art smartboards, video conferencing, and multimedia technologies to engage students. At the same time, these frequently-used spaces require solutions that enable fast, efficient installations and provide cost-effective, safe learning environments for educators and students.

Power, Data and Audio/Video Delivery
Classrooms and learning spaces require comprehensive wall, ceiling and in-floor solutions that deliver power, data and AV to a variety of technology devices and equipment.

Installation Efficiency
When it comes to upgrading or installing new devices in classrooms, contractors and maintenance personnel need to get in and out of these spaces as quickly and efficiently as possible.

Class Rooms • Libraries • Lecture Halls • Computer Labs • Restrooms

Hubbell X-END AV Plug-n-Play System

- Four inch connector tail
- Swap out application patch cords and tails utilizing the same horizontal cable

AV Plug-n-Play X-END Horizontal Cable Runs, Male, Black

Description	Catalog No.
Non-plenum, 8-pin	**VGA6xxBK**
Plenum, 8-pin	**VGA6PxxBK**
Non-plenum, 8-pin, with 3.5mm	**VGA36xxBK**
Plenum, 8-pin, with 3.5mm	**VGA36PxxBK**

xx = Length: **15** (15 ft), **25** (25 ft), **35** (35 ft), **50** (50 ft), **75** (75 ft), and **100** (100 ft)
Contact Hubbell customer service for custom lengths, minimum quantities and lead times may apply.

VGA Plug-n-Play X-END Connections

	15-Pin (F) to 8-Pin (F)				15-Pin (M) to 8-Pin (M) 8" Tail	
Quantity	Straight 180°	Angled 45°	Angled 90°	8" Tail	Non-Plenum	Plenum
1-Pack	**15S6P1**	**15A6P1**	**15N6P1**	**15T6P1**	**15M6P1**	**15MP6P1**
10-Pack	**15S6P10**	**15A6P10**	**15N6P10**	**15T6P10**	**15M6P10**	**15MP6P10**

HUBBELL ®
Wiring Systems

Classrooms and Learning Spaces

Data and Audio/Video Connectivity

Hubbell's netSELECT® FPTV connection enclosure delivers high-density connectivity and power in the wall. In-wall connections allow flat panel displays and interactive smartboards to sit flush without dangling cords. It quickly installs to studs or sheetrock without additional components or hardware.

FPTV Connection Enclosure

2-gang in-wall enclosure, white	**NSAV62M**
Steel cover for NSAV6 series, white	**NSAV6C**

Power Kits

Standard power kit, white	**NSOKP**
Surge protected power kit, blue	**NSOKPS**

Hubbell iSTATION HDMI 110 UTP Extenders

110 UTP HDMI extender (pair),	Decorator	**ISFH110xx**
5 Volt DC, 2 4-pair	Module	**IMH1102xx**

xx = Color: **BK** (Black), **EI** (Electric Ivory), **GY** (Gray), **OW** (Office White), and **W** (White).

Unloaded 1-Gang Plates and Frames

Hubbell iSTATION adapter frame	**NSAVIMFW**
Blank plate, white	**NP14W**
Decorator plate, white	**NP26W**
iSTATION plate, white	**IMF1W**
4-port keystone plate, white	**NSP14W**

Energy Efficiency

Lighting classrooms consumes a substantial amount of the education budget. However, significant savings can be realized by turning off lights when they are not needed. Occupancy sensors provide an inexpensive way to guarantee that energy waste is kept to a minimum.

H-MOSS® Ceiling Sensors

Adaptive Dual Technology		Adaptive Ultrasonic Technology		Ceiling Accessories	
2000 sq. ft.	**ATD2000C**	2000 sq. ft.	**ATU2000C**	Infrared NEMA 4X Enclosure	**ACIPE**
1000 sq. ft	**ATD1000C**	1000 sq. ft.	**ATU1000C**	Ceiling Mount Wire Guard	**ACMG**
500 sq. ft	**ATD500C**	500 sq. ft	**ATU500C**	Raceway Adapter	**ACMRA**

All ceiling sensors must use a control unit.

Control Unit

120/277V AC, 50/60 Hz for use with ATD, ATU and ATP series ceiling/wall mount sensors	**CU300A**
Same as CU300A above, manufactured in U.S.A.	**CU300AU**

Power and Multimedia Delivery

The AV Ceiling Enclosure is designed to work with active AV devices to integrate AV distribution, data connections and power in one location, providing a direct connection to a projector or a display device.

AV Ceiling Enclosure

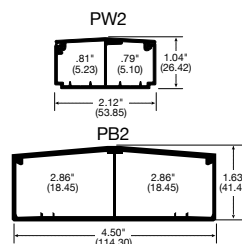|		
White enclosure 24"x12"x 8", 2-20 Amp duplex receptacles & 2-gang back box	Non-Plenum	**AVCE1**
	Plenum Rated	**AVCE1P**
Data Kit		**AVCE1KIT**

Non-Metallic Raceway

Two channel raceway. 5 ft., 7 ft. or 10 ft. lengths.

Description	5 ft.	7 ft.	10 ft.
Base & Cover	**PW2BC5**	**PW2BC7**	—
With Adhesive	**PW2ABC5**	**PW2ABC7**	—
Base	**PB2B5**	—	**PB2B10**
Cover	**PB2C5**	—	**PB2C10**
Split Cover	**PB2SPL5**	—	**PB2SPL10**

For full offering of Raceways and fittings, please visit our online catalog.
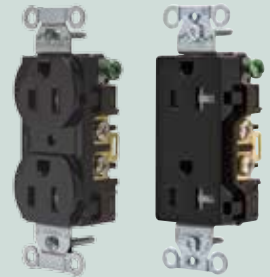
PW2
.81" (5.23)   .79" (5.10)   1.04" (26.42)
2.12" (53.85)

PB2
2.86" (18.45)   2.86" (18.45)   1.63" (41.40)
4.50" (114.30)

Administration offices have similar technology needs to classrooms, but are more focused on ensuring maximum productivity. Faculty and staff are using technology to improve communication, productivity and organizational development. These spaces also strive to conserve energy and are designed to be more aesthetically pleasing while offering a modern, more productive working environment for staff.

Energy Efficiency
Energy saving H-MOSS® wall switches automatically turn OFF lights in vacant offices and conference rooms to reduce energy consumption on campus.

Power, Data and Audio/Video Delivery
Reliable surge strips and receptacles keep equipment up and running while the delivery of power and data supports the proliferation of computers, access to systems and information, and enhanced communication.

Offices • Conference Rooms • Break Rooms • Restrooms

H-MOSS® Wall Switches

Dual (Ultrasonic and Passive Infrared)
1000 square foot coverage with photocell, 800W Incandescent, 1000W Fluorescent at 120V AC, 1800W Fluorescent at 277V AC, 50/60Hz

Description	Ivory	White
Single Circuit; 1 Button for manual/auto control	AD2000I1	AD2000W1
Single Circuit; Auto control with no button	AD2000I1N	AD2000W1N
Dual Circuit; 2 Buttons for manual/auto control	AD2000I2	AD2000W2
Dual Circuit; Auto control with no button	AD2000I2N	AD2000W2N

Two Button

One Button
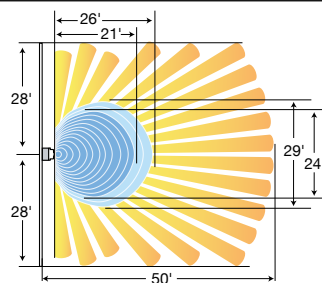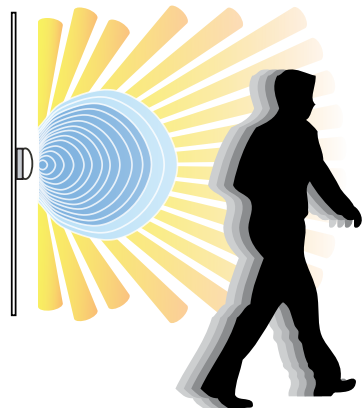
No Buttons

Minor Motion: ■ Ultrasonic ■ PIR   Major Motion: ■ Ultrasonic ■ PIR

Power and Multimedia Delivery

Hubbell SystemOne features a unique universal cover assembly and a wide variety of application sub-plates that install on Hubbell SystemOne Fire-Rated Poke-Throughs and floor boxes. Hubbell SystemOne delivers a consistent, aesthetic and functional solution for applications in the floor or through the floor.

Hubbell SystemOne

Fire-Rated Poke-Throughs

Description	Assembled Units*	Through Floor Fittings
(4) 20A; (4) keystone	S1PT4X4xx	S1PT4X4FIT
Dual Style Line®	S1PTxx	S1PTFIT
Modular AV	S1PT3IMxx	S1PTAVFIT
Furniture Feed	S1PTFFxx	—

*Factory assembled units include through floor fitting, cover and sub-plate.

For full offering of SystemOne sub-plates and accessories, please visit our online catalog.

Sub-Plates

Style Line® Decorator/ GFCI for power and/or AV	**S1SP**
(4) 20A and (4) keystone openings	**S1SP4X4**
StyleLine® Decorator/ Duplex for power and/or AV	**S1SPDUSL**

Covers

Cast aluminum construction with a durable powder coat finish	Carpet	**S1CFCxx**
	Tile	**S1TFCxx**

xx = Color/Finish: **AL** (Aluminum Finish), **BRS** (Brass Finish), **BL** (Black) and **GY** (Gray).

AV Connections

Hubbell iSTATION products provide a consistent and practical solution for delivering all types of connections where you need them — in the wall, floor or table. Hubbell iSTATION's modular design allows users to custom configure plate solutions to their requirements.

Modular Face Plate Frames

Front Loading Frames	1-Gang	**IMF1xx**
	2-Gang	**IMF2xx**

Modules

RCA Component, Video, Solder, 1 Unit	**IMCRS1xx**
RCA Component, Video, Gold, Pass-Through, F/F Coupler, 1 Unit	**IMCRF1**
HDMI Feed-Through Coupler	**HDMIC14**
Keystone HDMI Feed-Through	**SFHC14xx**

Unloaded Modules

Keystone; 1-Port; 1 Unit	**IM1K1xx**
Keystone; 2-Port; 1 Unit	**IM2K1xx**
SC Angled; 1-Duplex; 1.5 Unit	**IM1SCA15xx**
SC Angled; 2-Duplex; 2 Unit	**IM2SCA2xx**

Blank 15-Pin/9-Pin HDMI

HD15/9-pin or HDMI; 1 Unit	**IMBDS1xx**
w/ 3.5mm Stereo Jack; 1.5 Unit	**IMBDSA15xx**
w/ 3.5mm SJ+AV Conn; 2 Unit	**IMB153X2xx**

xx = Color: **AL** (Almond), **BK** (Black), **EI** (Ivory), **GY** (Gray), **OW** (Office White) and **W** (White).

Data and Audio/Video Connectivity

Hubbell's category rated modular jacks and patch cords provide leading edge performance and innovative designs to support today's Ethernet protocols, IP devices and high bandwidth audio video applications.

Data Jacks

Description	Category 6A	Category 6	Category 5e
1 per Bag/Carton of 25	HJ6Axx	HXJ6xx	HXJ5Exx
25 per Bag/Carton of 1	HJ6Axx25	HXJ6xx25	HXJ5Exx25

xx = Color: **AL** (Almond), **B** (Blue), **BK** (Black), **EI** (Electric Ivory), **GL** (Gold), **GY** (Gray), **GN** (Green), **LA** (Light Almond), **OW** (Office White), **OR** (Orange), **P** (Purple), **R** (Red), **TI** (Telco Ivory), **W** (White) and **Y** (Yellow).

Patch Cords

Description	Category 6A	Category 6	Category 5e
Snagless Design	HC6Axxyy	HC6xxyy	HC5Exxyy

xx = Color: **B** (Blue), **BK** (Black), **GY** (Gray), **GN** (Green), **OR** (Orange), **P** (Purple), **R** (Red), **W** (White) and **Y** (Yellow).
yy = Standard Length: **01** (1ft), **03** (3ft), **05** (5ft), **07** (7ft), **10** (10ft), **15** (15ft), **20** (20ft).

With more information, classes and entertainment being delivered online, technology has become an integral component of student life. In fact, advanced technology is one of the most vital components for continuing educational facilities to attract students. At the same time, safe living environments are paramount to protecting students and reducing risk.

Dorm Rooms • Common Areas • Kitchens • Restrooms

Power, Data and Audio/Video Delivery
Hubbell's wide range of voice, data and video connectors and plates are ideal for delivering internet access, entertainment, phone service and security systems to residence halls.

Safety and Durability
Frequent plugging in of electronics in these spaces requires durable wiring devices, while bathrooms, kitchenettes and other potentially damp areas need tamper and weather resistant GFCI receptacles to ensure protection of students.

Tamper-Resistant GFCI Receptacles

The combination of GFCI protection and tamper-resistant safety provides and ideal "one-stop" Hubbell solution. Hubbell tamper-resistant GFCI devices also include a weather resistant rating per NEC® 406.8, providing UV and corrosion resistance.

AUTOGUARD® GFCI Receptacles
Tamper-Resistant, Weather Resistant

Description	Color	15A 120 V AC 15A 125V NEMA 5-15R	20A 125V AC 20A 125V NEMA 5-20R
Flush, nylon face, back and side wired, multiple drive screws, automatic grounding clip	Almond	**GFTWRST15AL**	**GFTWRST20AL**
	Black	**GFTWRST15BK**	**GFTWRST20BK**
	Brown	**GFTWRST15**	**GFTWRST20**
	Gray	**GFTWRST15GY**	**GFTWRST20GY**
	Ivory	**GFTWRST15I**	**GFTWRST20I**
	Light Almond	**GFTWRST15LA**	**GFTWRST20LA**
	Red	**GFTWRST15R**	**GFTWRST20R**
	White	**GFTWRST15W**	**GFTWRST20W**

Installation Efficency

Hubbell's SNAP*Connect* receptacles make installation fast, easy and consistent so you can complete projects sooner — saving more than three minutes per device!
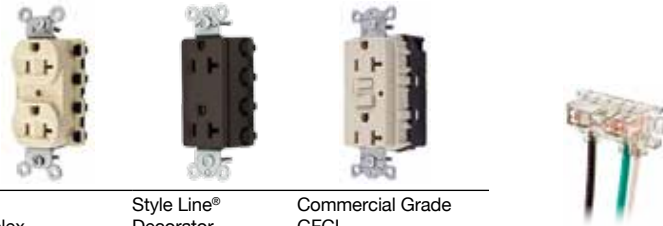
SNAP*Connect*®
Receptacles and GFCI

Config.	NEMA	Color	Duplex	Style Line® Decorator	Commercial Grade GFCI
15A 125V		Black	SNAP5262BKA	SNAP2152BKA	GFR15SNAPBKNA
		Ivory	SNAP5262IA	SNAP2152IA	GFR15SNAPINA
		White	SNAP5262WA	SNAP2152WA	GFR15SNAPWNA
		Other	SNAP5262xx	SNAP2152xx	GFR15SNAPxxNA
20A 125V		Black	SNAP5362BKA	SNAP2162BKA	GFR20SNAPBKNA
		Ivory	SNAP5362IA	SNAP2162IA	GFR20SNAPINA
		White	SNAP5362WA	SNAP2162WA	GFR20SNAPWNA
		Other	SNAP5362xxA	SNAP2162xxA	GFR20SNAPxxNA

xx = Color: **AL** (Almond), No Suffix (Brown), **GY** (Gray), **LA** (Light Almond) and **R** (Red).

SNAP*Connect*®
Right Angle Pigtailed Connector

Clear right angle terminal with 6 inch leads #12 AWG THHN/THWN-2, 600V wire

Solid wire	SNAP1RA
Stranded wire	SNAP2RA

Energy Efficiency

Significant savings can be realized by turning off lights when they are not needed. Occupancy sensors provide an inexpensive way to guarantee that energy waste is kept to a minimum.

Adaptive Passive Infrared Technology Wall Switches

1-Circuit, 1-button	AP2000xx1
1-Circuit, no button	AP2000xx1N
2-Circuit, 2-buttons	AP2000xx2
2-Circuit, no buttons	AP2000xx2N

xx = Color: **BK** (Black), **GY** (Gray), **I** (Ivory), **LA** (Light Almond) and **W** (White).

Ceiling Sensors

1500 sq. ft.	ATP1500C
450 sq. ft.	ATP600C

Wall Mount Sensors

1600 sq. ft.	ATP1600W

Ceiling and wall mount sensors must use a control unit.

Control Units

120/277V AC, 50/60Hz for use with ATP series ceiling/wall mount sensors	CU300A
Same as CU300A above, manufactured in U.S.A.	CU300AU

Accessories
Ceiling

Infrared NEMA 4X Enclosure	ACIPE
Ceiling Mount Wire Guard	ACMG
Raceway Adapter	ACMRA

Wall Mount and Switch

Wall Switch Wire Guard	AWSG
Wall Mount Wire Guard	AWMG

Data and Audio/Video Connectivity

Requiring no solderin, these connectors install with a snap and provide quick, easy "screw-on" termination. Compatible with TV, CATV and CCTV, home theater and entertainment systems, satellite, security and surveillance systems, VCR/DVD applications.

F-Type Connectors

F-Type Coupler Bulkhead F/F	F-Type Coupler Bulkhead F/F Gold	F-Type to RCA Bulkhead F/F Gold	F-Type Recessed
SFFxxX	SFFGxx	SFRFGxx	SFGRFxx

xx = Color: **AL** (Almond), **BK** (Black), **GY** (Gray), **EI** (Ivory) **LA** (Light Almond), **OW** (Office White) or **W** (White).
SFRFG Series not available in Almond or Light Almond. **SFGRF** Series not available in Light Almond.

IFP Faceplates

Delivery	1-Port	2-Port	Single Gang 3-Port	4-Port	6-Port	Double Gang 9-Port	12-Port
1/bag, Carton/25	IFP11xx	IFP12xx	IFP13xx	IFP14xx	—	—	—
1/bag, Carton/10	—	—	—	—	IFP26xx	IFP29xx	IFP212xx

xx = Color: **AL** (Almond), **BK** (Black), **EI** (Electric Ivory), **GY** (Gray), **LA** (Light Almond), **OW** (Office White) or **W** (White).

Food and General Services

Both primary and continuing education facilities include food preparation areas, requiring easy-to-use, safe and durable power connections that accommodate a variety of appliances. Today's education facilities also strive to deliver advanced technology to food service areas for Internet access, digital signage for displaying menus, entertainment systems, and point-of-sale registers.

Cafeterias • Kitchens • Book Stores • Student Lounge

Safety and Durability
Hubbell offers an array of ground fault and watertight devices that are ideal for use in kitchen and food service areas, as well as disconnect switches to safely shut-down larger machinery like dishwashers and exhaust systems.

Power, Data and Audio/Video Delivery
Flat panel TV enclosures are ideal for keeping cords hidden behind digital signage systems in cafeterias while HI-Impact enclosures protect equipment needed to deliver power, data and multimedia.

Flat Panel TV Enclosures

Hubbell's netSELECT® FPTV in-wall connection enclosure allows flat panel displays and interactive smartboards to sit flush without dangling cords. It quickly installs to studs or sheetrock without additional components or hardware.

FPTV Connection Enclosure
2-gang in-wall enclosure, white	**NSAV62M**
Steel cover for NSAV6 series, white	**NSAV6C**

Power Kits
Standard power kit, white	**NSOKP**
Surge protected power kit, blue	**NSOKPS**

HUBBELL®
Wiring Systems
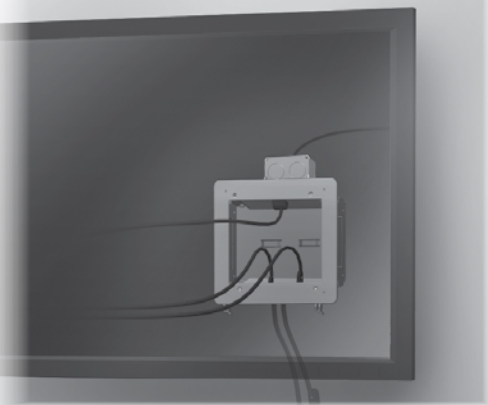
Power Connections

Large equipment like back-up generators, compactors, loading dock equipment, HVAC units and air handlers all need high-capacity, safe and reliable power. These enclosures are non-metallic Type 4X Rated for washdown.

Circuit-Lock®
Unfused Disconnect Switches

Description	Catalog No.
30A disconnect switch	**HBLDS3***
60A disconnect switch	**HBLDS6***
100A disconnect switch	**HBLDS10***
Auxiliary contacts, "break after main break"1 set of n/o & n/c contacts	**HBLAC1**
Auxiliary contacts, "break before main break"1 set of n/o contacts	**HBLAC2**

*Add suffix "**AC**" for disconnect with one **HBLAC1** aux. contact.

Circuit-Lock®
Fused Disconnect Switches

Description	Catalog No.
30A disconnect switch	**FDS30***
60A disconnect switch	**FDS60***
Auxiliary contacts, normally open, A600 pilot duty	**ACFSNO**
Auxiliary contacts, normally closed, A600 pilot duty	**ACFSNC**

*Class "J" fuses not included.
30A Units supplied with (2) 1 in. N.P.T. raintight conduit fittings.
60A Units supplied with (2) 1¼ in. N.P.T. raintight conduit fittings.

Power and Multimedia Delivery

Hubbell's HI-Impact enclosures are available in NEMA 3R, 4, 4X, 12 and 13 ratings, providing a mini telecom room for harsh environments.

User-Configurable Version

	Height		
Description	24" (610)	36" (914.4)	48" (1219.2)
Cold Rolled Steel, Gray Powder Coat, NEMA 3R	**IR2U3RG**	**IR3U3RG**	—
Cold Rolled Steel, Gray Powder Coat, NEMA 4/12/13	**IR2UG**	**IR3UG**	**IR4UG**
Stainless Steel, Brushed, Unpainted, NEMA 4X	**IR2USS**	**IR3USS**	—

Pre-Configured Version

	Height	
Description	36" (914.4)	48" (1219.2)
Cold Rolled Steel, Gray Powder Coat, NEMA 4/12/13	**IR3PG**	**IR4PG**
Contents: 1 enclosure; 1 bottom-hinged patch panel bracket, 4U (REK19); and 1 equipment mounting bracket, 5U (REKZ).		

Power Connections

Watertight Safety-Shroud® Twist-Lock® devices are constructed of highly impact-resistant thermoplastic for a UL Type 4X rating in heavy duty environments. The integral Safety-Shroud virtually eliminates bent and broken plug blades, leading to longer equipment life while providing extra protection for personnel.

Watertight Safety-Shroud® Twist-Lock®

NEMA Rating Color Coded by Voltage		Poles/Wires	Plug	Connector	Receptacles
20A 125V	L5-20	2P/3W	**HBL2311SW**	**HBL2313SW**	**HBL2310SW**
20A 250V	L6-20	2P/3W	**HBL2321SW**	**HBL2323SW**	**HBL2320SW**
20A 277V AC	L7-20	2P/3W	**HBL2331SW**	**HBL2333SW**	**HBL2330SW**
20A 3Ø 250V	L15-20	3P/4W	**HBL2421SW**	**HBL2423SW**	**HBL2420SW**
30A 3Ø 250V AC	L15-30	3P/4W	**HBL2721SW**	**HBL2723SW**	**HBL2720SW**
30A 3Ø 480V AC	L16-30	3P/4W	**HBL2731SW**	**HBL2733SW**	**HBL2730SW**

Watertight Devices

When it comes to safety, most everyone knows that water and electricity can create a dangerous environment. Ensuring a watertight seal for electrical devices is critical to ensuring maximum safety of personnel in any wet environment. Hubbell Watertight Twist-Lock® devices have become the industry standard for maintaining a watertight seal.

HI-Impact™ Copper Connectors

HI-Impact connectors provide a rugged, durable IP67 Rated connection in a standard configuration for Hubbell Category 6 and 5e rated connectivity.

Stainless Steel Data Plates

Stainless steel plates are designed for flush mounting of Hubbell connectivity providing corrosion resistance from frequent washdown.

Auditorium and Performing Arts

Education facilities typically include auditoriums and performing arts centers for a variety of learning and entertainment activities including band performances, plays and general assemblies, or large-scale seminars, theatre productions and award ceremonies. These spaces must accommodate the latest audio-visual technology for presentations while providing maximum reliability to ensure that the show goes on.

Power, Data and Audio/Video Delivery
From access to multimedia applications at the presenter's podium on stage, to projection, lighting, curtain and sound systems, these spaces require a variety of power and low-voltage systems.

Safety and Durability
Twist-Lock® devices and single-pole plugs maintain reliable power connections to prevent performance interruptions while wire mesh grips and cable protection systems maintain the integrity of electrical cords, cables and conduit.

Lecture Halls • Conference Rooms • Gymnasiums • Auditoriums

Twist-Lock® Devices

Insulgrip® Twist-Lock® devices available in 20A and 30A maintain Hubbell's classic integrity, solid construction and safety features that make these the "Industry Standard". The plug and connector feature a powerful cord grip, and nylon body and housing for impact resistance.

Twist-Lock® Locking Devices

NEMA Rating Color Coded by Voltage		Poles/Wires	Plug	Connector	Receptacle
15A 125V	L5-15	2P/3W	HBL4720C	HBL4729C	HBL4710
20A 125V	L5-20	2P/3W	HBL2311	HBL2313	HBL2310
20A 250V	L6-20	2P/3W	HBL2321	HBL2323	HBL2320
20A 3Ø 250V	L15-20	3P/4W	HBL2421	HBL2423	HBL2420
20A 3Ø 480V	L16-20	3P/4W	HBL2431	HBL2433	HBL2430
30A 3Ø 250V	L15-30	3P/4W	HBL2721	HBL2723	HBL2720
30A 3Ø 480V	L16-30	3P/4W	HBL2731	HBL2733	HBL2730

HUBBELL Wiring Systems

Auditorium and Performing Arts

Safety and Security

Single pole devices are the right choice for supplying temporary electrical power distribution to numerous applications. Single pole devices have been designed with ease of assembly and disassembly in mind, no special tools are required.

Single Pole Plugs
Thermoplastic elastomer

Description	Male	Female
300 Amp, cable sizes #4 - 2/0	**HBL300Mxx**	**HBL300Fxx**
400 Amp, cable sizes 2/0 - 4/0	**HBL400Mxx**	**HBL400Fxx**

Single Pole Receptacles
Thermoplastic elastomer

	Through Hole Mounting	
	Female	Male
400 Amp Panel Mount, mates with 300 and 400 Amp plugs.	**HBLFRSxx**	**HBLMRSxx**

Single Pole "T's" and Tri-Taps

Tapping "T" (F-F-M)	**HBLTxx**
Paralleling "T" (F-M-M)	**HBLPTxx**
Tri-Tap (M-F-F-F)	**HBLM3Fxx**
Tri-Tap (F-M-M-M)	**HBLF3Mxx**

Single Pole Distribution Block

1 Male, 6 Females	**HBL7DBxx**

xx = Color: **BK** (Black), **BL** (Blue), **BN** (Brown), **GN** (Green), **O** (Orange), **R** (Red), **W** (White) and **Y** (Yellow).

Data/Audio Wall Mount Enclosure

QUADCAB® wall mount enclosures are an ideal solution for remote audio/video and data applications.

QUADCAB® Wall Mount Enclosure
Contents: (1) Rear section (arrives disassembled facilitating installation)
(1) Front door; (2) 19" mounting angles; (1) Center section with
(2) CH751 locks; (2) Top/bottom cover plates; (2) Hinge pins;
(2) Security cotter pins

Height	Depth	Rack Units	Rear Wall Unit	Color*	Window Door	Solid Door
24" (609)	20" (508)	12	2	Black	**HSQ24**	**HSQ24S**
24" (609)	26" (660)	12	2	Black	**HSQ2426**	**HSQ24S26**
24" (609)	36" (914)	12	2	Black	**HSQ2436**	**HSQ24S36**
36" (914)	20" (508)	19	4	Black	**HSQ36**	**HSQ36S**
36" (914)	26" (660)	19	4	Black	**HSQ3626**	**HSQ36S26**
36" (914)	36" (914)	19	4	Black	**HSQ3636**	**HSQ36S36**
48" (1219)	20" (508)	26	6	Black	**HSQ48**	**HSQ48S**
48" (1219)	26" (660)	26	6	Black	**HSQ4826**	**HSQ48S26**
48" (1219)	36" (914)	26	6	Black	**HSQ4836**	**HSQ48S36**

*For Office White, add "**W**" to the end of the Catalog No.

Wire Securedness and Strain Relief

Hubbell wire mesh grips are designed to prevent strain from being transmitted to joints and terminals on electrical cords, cables and conduit. This provides greater security than using a fitting alone, making electrical systems safer by preventing cable pull-out and controlling cable arc-of-bend.

Kellems® Grips

Single Eye, Closed Mesh*
For permanent support when cable end is available to be installed through grip.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lb. (N)	Catalog No.
.50"-.62" (1.27-1.57)	530 (2,357)	**02201013**
.63"-.74" (1.60-1.88)	790 (3,514)	**02201014**
.75"-.99" (1.90-2.51)	1,020 (4,537)	**02201015**
1.00"-1.24" (2.54-3.15)	1,610 (7,161)	**02201017**
1.25"-1.49" (3.17-3.78)	1,610 (7,161)	**02201018**
1.50"-1.74" (3.81-4.42)	1,610 (7,161)	**02201019**

Change catalog number from **022 to **024** for stainless steel. Consult factory for availability.

Single Eye, Split Mesh, Rod Closing*
For support when cable end is not available.

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lb. (N)	Catalog No.
.50"-.62" (1.27-1.57)	790 (3,514)	**02203013**
.63"-.74" (1.60-1.88)	790 (3,514)	**02203014**
.75"-.99" (1.90-2.51)	1,020 (4,537)	**02203015**
1.00"-1.24" (2.54-3.15)	1,610 (7,161)	**02203017**
1.25"-1.49" (3.17-3.78)	1,610 (7,161)	**02203018**
1.50"-1.74" (3.81-4.42)	1,610 (7,161)	**02203019**

Change catalog number from **022 to **024** for stainless steel. Consult factory for availability.

Science and Research Laboratories

Whether it's the typical high-school science lab, or a more sophisticated university research facility, science and research laboratories require an array of solutions to deliver power and technology where it's needed. These spaces can also be exposed to corrosive chemicals and wash downs, requiring extremely durable product solutions designed to withstand harsh environments.

Power, Data and Audio/Video Delivery
Hubbell's complete line of metal and non-metallic raceway is optimal for delivering power and technology to the point of use in laboratories while offering maximum flexibility for changing needs.

Safety and Durability
Hubbell's complete line of GFCI and duplex receptacles maintain reliable power and safety in harsh laboratory environments, while stainless steel plates resist oxidation and corrosion.

Computer Labs • Science Labs • Research Labs

Pre-Wired Raceway Systems

- Hubbell Pre-Wired Raceway saves time and money by completing the job quicker and on schedule

- Local and factory support available to assist in defining bills of material

- Raceway ducts are kitted, labeled and shipped by room, area or floor locations

Aluminum Pre-Wired Raceway
Satin Anodized Finish

Description	Dimension*
HBLALU3800 Series Single Channel	A: 2.25" (57.15) B: 3.00" (76.20)
HBLALU4800 Series Two Channel	A: 2.25" (57.15) B: 6.00" (152.40)
HBLALU5000 Series Two Channel	A: 1.75" (44.45) B: 5.08" (129.03)
HBLALU7620 Series Three Channel	A: 2.25" (57.15) B: 7.62" (193.55)

Steel Pre-Wired Raceway
Ivory or Gray Finish

Description	Dimension*
HBL3000 Series Single Channel	A: 1.53" (38.86) B: 2.75" (69.85)
HBL4750 Series Single or Two Channel (with Divider)	A: 1.75" (44.45) B: 4.75" (120.65)
HBL6750 Series Two Channel (w/1 divider) Three Channel (w/2 dividers)	A: 2.22" (56.39) B: 6.75" (171.45)

Non-Metallic Pre-Wired Raceway
Office White Color

Description	Dimension*
PB2 BaseTrak® Series Single Channel	A: 1.63" (41.40) B: 4.50" (114.30)
PS3 Super BaseTrak® Series, Three Channel	A: 1.97" (50.04) B: 6.70" (170.18)
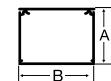
*Dimensions:
A= Height, B= Width

Safety and Security

Hubbell's top-of-the-line Ground Fault receptacles are available with or without Hubbell's patented Self Test technology which requires no user interface to test the device. Both versions feature Hubbell's exclusive tamper-resistant design. The Hubbell TR design employs an electro-mechanical switching mechanism to obtain the tamper-resistant safety feature.

AUTOGUARD® Self Test GFCI Receptacles

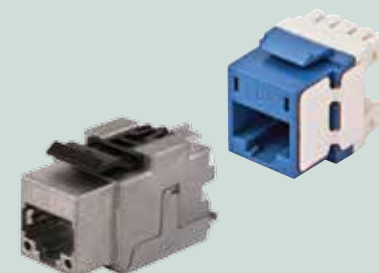| Description	Color	15A 125V	20A 125V
Flush, polyester face, back and side wired, multiple drive screws	Black	GFR5262SGBK	GFR5362SGBK
	Brown	GFR5262SG	GFR5362SG
	Gray	GFR5262SGGY	GFR5362SGGY
	Ivory	GFR5262SGI	GFR5362SGI
	Red	GFR5262SGR	GFR5362SGR
	White	GFR5262SGW	GFR5362SGW

Circuit Guard® GFCI Receptacles

Description	Color	15A 125V	20A 125V
	Black	GFR5262BKTR	GFR5362BKTR
	Brown	GFR5262TR	GFR5362TR
	Gray	GFR5262GYTR	GFR5362GYTR
	Ivory	GFR5262ITR	GFR5362ITR
	Red	GFR5262RTR	GFR5362RTR
	White	GFR5262WTR	GFR5362WTR

Data and Audio/Video Connectivity

Hubbell's Surface Mount Boxes are designed to facilitate today's most demanding workstation needs. Available in five sizes to accommodate 1, 2, 4, 6 and 12 Hubbell jacks and Audio/Video connectors, each box encompasses the right combinations of features and density for UTP, audio, video and fiber optic applications.

ISB Surface Mount Boxes	12-Port	6-Port	4-Port	2-Port	1-Port
	ISB12xx	ISB6xx	ISB4xx	ISB2xx	ISB1xx

xx = Color: **BK** (Black), **EI** (Electric Ivory), **GY** (Gray), **OW** (Office White) and **W** (White).

POLYTRAK® Raceway Compatibility Chart

Series	PP	PL	PW	PB
ISB1	✓	✓	✓	✓*
ISB2	✓	✓	✓	✓*
ISB4	✓	✓	✓	✓*
ISB6	✓	—	—	✓*
ISB12	✓	—	—	✓*

*Use #**PB3REDA** transition fitting.

Non-Metallic Raceway	w/o Adhesive	with Adhesive
PP1 PremiseTrak (Latching)	PP1BCxx	PP1ABCxx
PL1 LANTrak (Latching)	PL1BCxx	PL1ABCxx
PW2 WallTrak (Latching)	PW1BCxx	PW1ABCxx
PB2 BaseTrak Base	PB2Bxx	—
PB2 BaseTrak Cover	PB2Cxx	—

xx = Length: **5** (5 ft) or **7** (7 ft).

Power Connections

Hubbell Extra Heavy Duty Industrial Series receptacles demonstrate a commitment to building quality devices and continually reinforce a philosophy of unrivaled performance. The deep nylon body design delivers increased impact resistance and the exclusive bypass contact design results in greater contact force and reduced heat build up.

HBL® Extra Heavy Duty Industrial Series

NEMA	Rating	Color	Duplex	Weather Resistant	Single
	15A 125V	Brown	HBL5262	HBL5262WR	HBL5261
		Black	HBL5262BK	HBL5262BKWR	HBL5261BK
		Ivory	HBL5262I	HBL5262IWR	HBL5261I
		Other	HBL5262x	HBL5262xWR	—
	20A 125V	Brown	HBL5362	HBL5362WR	HBL5361
		Black	HBL5362BK	HBL5362BKWR	HBL5361BK
		Ivory	HBL5362I	HBL5362IWR	HBL5361I
		Other	HBL5362x	HBL5362xWR	HBL5361xx

x = Color: **GY** (Gray), **R** (Red) and **W** (White). **xx** = Color: **GRY** (Gray), and **W** (White).

Additional Products of Interest

Cat 6A UTP and Shielded Jacks
Hubbell Category 6A component compliant UTP/FTP jacks provide significant bandwidth to support 10GbE, PoE and other emerging applications. Shielded versions provide enhanced EMI/ANEXT protection.

Stainless Steel Wallplates
Hubbell's corrosion resistant, stainless steel wallplates provides solutions for a variety of applications with environments subjected to heavy abuse. Stainless steel wallplates are available in a variety of power and data configurations.
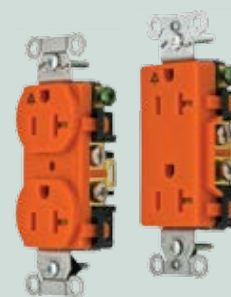
Isolated Ground Receptacles
Isolated ground devices provide protection for sensitive electronics and test equipment in areas with high levels of network connectivity.

Data Centers

Data centers are the very core of education facilities, supporting all the applications needed for daily communications and Internet access, management and storage of administration and student records, and the delivery of advanced learning technologies. These spaces house a wide range of highly critical networking equipment, yet are also faced with increased power consumption and cooling challenges.

Data Centers • Racks • Data Closets • Communication Rooms

Power, Data and Audio/Video Delivery
From efficient power distribution and network cable management, to advanced copper and fiber cable and connectivity, Hubbell has the solutions to support the latest high-density networking applications.

Energy Efficiency
Hubbell cabinets and cable management optimize airflow for more efficient cooling and reduced energy consumption while pre-terminated solutions save space and reduce waste.

XXL Organizers Vertical Cable Management

- The hinged door is designed to open left, right or swing out of the way

- Mounting plates for power strips on the rear of the organizer

- Cable management spools ensure proper bend radius, and are vertically placed where needed along the channel

XXL Series Vertical Organizers

Door Insert	Channel Depth*	6" Wide	10" Wide	15" Wide
Silver	14 1/8"	**XS0610**	**XS1010**	**XS1510**
Silver	18 7/8"	**XS0615**	**XS1515**	**XS1515**
Black	14 1/8"	**XS0610BK**	**XS1010BK**	**XS1510BK**
Black	18 7/8"	**XS0615BK**	**XS1515BK**	**XS1515BK**

*Channel depth does not include rear cable organizer. Rear cable organizer depth is 7¾".
Contents: Front and rear vertical organizer, door, 16 - 3" black cable management spools.

NEXTFRAME® 3" and 6" Equipment Racks

Black Finish*	19" Wide	23" Wide
24 Rack Units, Depth: 3", Height: 48" (1219)	**HPW48RR19**	**HPW48RR23**
45 Rack Units, Depth: 6", Height: 84" (2134)	**HPW84RR19D**	—

*For mill (aluminum) finish rack, add "**ML**" to catalog number.

HUBBELL ®
Wiring Systems

Data Centers

Cable Management

Hubbell Premise Wiring offers a full line of networking enclosures featuring enhanced cable management. Security features include locking split side doors.

H2 Series Network Cabinets

Height	Depth	Color	Rack Units	Catalog No.
84.00"	36.00"	Black	45	**H2N8436**
84.00"	32.00"	Black	45	**H2N8432**
80.00"	36.00"	Black	43	**H2N8036**
80.00"	32.00"	Black	43	**H2N8032**

Angled Panels

Category	24 Port	48 Port
6A	**HP6A24AU**	**HP6A48AU**
Shielded 6A	**PSJ24AU**	**PSJ48AU**
6	**P624AU**	**P648AU**
5e	**P5E24AU**	**P5E48AU**

Bonding

Telecom Bonding Conductor	**MCCGBAR**
Bonding Connector	**BC285SB100**

Grounding

Telecom Grounding Bar	**RKTGB**
19" Rack Mount Ground Bar	**MCCGBAR**
Wall Mount Cabinet Ground Kit	**REKGB**
Economy Ground Strap Kit	**REKEGS**

Efficiency

OptiChannel is a comprehensive system of end-to-end fiber products supporting high bandwidth datacenter applications including 10/40/100 Gigabit Ethernet. OptiChannel's pre-terminated, high density, modular design promotes efficiency, flexibility and maximum space utilization without compromising accessibility.

PROclick® Connectors

12 LC 10G – OM3 Multimode	**FCLC900K50GM12**
12 SC 10G – OM3 Multimode	**FCSC900K50GM12**

High Density 144-Port 1U Enclosure

Black	**FCRHD1UBK**
Gray	**FCRHD1UGY**

Ultra Compact 12-Port LC Cassette

10G-OM3	**OCLCHD50G3**

Standard LC-MPO Cassettes 10G-OM3

SC Duplex, 12-Port, 10G-OM3	**OCSC50G**
LC Duplex, 12-Port, 10G-OM3	**OCLC50G**
LC Duplex, 24-Port, 10G-OM3	**OCLC24P50G**
LC Quad, 24-Port, 10G-OM3	**OCLCQ50G**

OptiChannel High Density Uni-Boot LC Patch Cords OFNR Riser

LC to LC, OM3, Aqua	**HDPCLC50G3Mxx**
LC to SC, OM3, Aqua	**HDPCLCSC50G3Mxx**

xx = Length: **1**, **2**, **3**, **4**, **5**, **6**, **8**, **10** meters.

Power Connections

IEC Watertight Pin & Sleeve Devices provide safe and dependable performance in the most demanding environments. Heavy duty non-conductive nylon construction provides impact and corrosion protection. Thermoset polyester contact carriers withstand extreme temperatures and provide resistance to electrical tracking.

20A and 30A Plug, Connector, Receptacle

Rating Color Coded by Voltage		Poles/Wires	Plug, Connector, Receptacle
20A 120/240V		3P/4W	**HBL420xx12W**
20A 3Ø 480V		3P/4W	**HBL420xx7W**
30A 120/240V		3P/4W	**HBL430xx12W**
30A 3Ø 480V		3P/4W	**HBL430xx7W**
30A 3Ø 600V		3P/4W	**HBL430xx5W**

xx = Device: **P** (Plug), **C** (Connector) and **R** (Receptacle).

60A and 100A Plug, Connector, Receptacle

Rating Color Coded by Voltage		Poles/Wires	Plug, Connector, Receptacle
60A 120/240V		3P/4W	**HBL460xx12W**
60A 3Ø 480V		3P/4W	**HBL460xx7W**
60A 3Ø 600V		3P/4W	**HBL460xx5W**
100A 120/240V		3P/4W	**HBL4100xx12W**
100A 3Ø 480V		3P/4W	**HBL4100xx7W**
100A 3Ø 600V		3P/4W	**HBL4100xx5W**

Delivering safe, convenient power and multimedia to rugged indoor athletic arenas or harsh outdoor stadium environments poses a challenge for both primary and continuing education facilities. From maintaining spectator safety to providing power and voice, data, and video connections, Hubbell's winning combination is essential to maintaining state-of-the-art athletic facilities with real-time transmission of sporting events.

Power, Data and Audio/Video Delivery
Hubbell's SPIDER® Temporary Power Distribution system incorporates the latest devices for reliably delivering safe, temporary power to a variety of equipment and lighting systems needed for outdoor events.

Safety and Durability
Hubbell's watertight devices maintain safe, reliable power at outdoor events, even when it's raining. In the event of pedestrian and vehicular traffic, Hubbell cable and hose protection systems prevent trip or shock hazards.

Indoor Gymnasium • Outdoor Field • Playgounds • Concessions

SPIDER® Temporary Power Distribution

Outdoor events need to ensure maximum safety when providing temporary electrical power for equipment and lighting, especially since these applications involve frequent plug-ins and disconnects.

Temporary Power Boxes

Max Rating	Type	Receptacle Rating	Protection Overload/GFI	Receptacle Type	
				Straight Blade	Twist-Lock®
Spider® II	(7) Receptacles	20A, 125V	Yes/Yes	**SDSB1A**	**SDTL1A**
30A, 120/240V AC	(1) Twist-Lock®*	30A, 120/240V	No/No		
Spider® II	(7) Receptacles	20A, 125V	Yes/Yes	**SBSB1A**	**SBTL1A**
50A, 120/240V AC	(1) Twist-Lock®*	50A, 125/250V	No/No		
Spider® II	(6) Receptacles	20A, 125V	Yes/Yes	**SCSB0**	**SCTL0**
60A, 3Ø 120/208V	(1) Pin & Sleeve*	60A, 3ØY, 120/208V	No/No		
50A 120/240V AC	(6) Receptacles	20A, 125V	Yes/Yes	**TPDS**	**TPDL**
	(1) Twist-Lock®	30A, 250V	Yes/No		
	(1) Twist-Lock®*	50A 125/250V	No/No		

*Inlet and outlet.

Safety and Security

Exposed cables, cords and hoses can be a trip hazard for pedestrians, as well as a potential shock hazard. Hubbell offers a variety of hose and cable protection systems that provide a safe ramping system for both pedestrian and vehicle traffic. Heavy-duty, medium-duty and ADAAG compliant systems are available.

TrukTrak® and TredTrak® Systems

Description	TrukTrak®	TredTrak®
5 Channel	**HBLTT5B**	**HBLTRED5B**
5 Channel 45° right turn	**HBLTT545RB**	—
5 Channel 45° left turn	**HBLTT545LB**	—
5 Channel "X" fitting	—	**HBLTRED5XB**
5 Channel "Y" fitting	—	**HBLTRED5YB**
3 Channel	**HBLTT3B**	—
2 Channel	**HBLTT2B**	—

AccessTrak® System

Description	Catalog Number
5 Channel AccessTrak kit*	**HBLAT5KITA**
5 Channel AccessTrak trough	**HBLAT5A**

*Contents: (1) trough; (1 set) end rails; (1 set) ramps; (2 sets) end rails.

Audio/Video Enclosures

Optimizing Cabling in hospitality, entertainment venues and remote environments, the RE-BOX® Zone Cabling Infrastructure System offers comprehensive zone cabling solutions to meet the needs of any topology.

RE-BOX® – Commercial Equipment Cabinet
Pre-Configured Version

Switch Cap.	Max. Switch Depth	Height x Width x Depth	Catalog #
2U	14" (356)	32"(813) x 24.2"(615) 7"(178)	**RE2xx**
5U	14" (356)	32" (813) x 24.2"(615) x 10"(254)	**RE4xx**
5U	22" (559)	42"(1067) x 24.2"(615) x 10"(254)	**RE4Xxx**

xx = Color: **B** (Black) and **no suffix** (Light Gray).
Contents: base/rear section with welded 19" brackets for 2 hubs, front door with 2 locks (NSQ tool), a set of 19" extension brackets for 3 additional hubs (RE4xx only) and a set 19" bottom hinge brackets for patch panels

User-Configurable Version Light Gray Color

Rack Width Units	Height x Width x Depth	Catalog No.
2U	24"(600) x 24.2"(615) x 10"(254)	**IDF24**
4U	32"(813) x 24.2"(615) x 10"(254)	**IDF32**
6U	42"(1067) x 24.2"(615) x 10"(254)	**IDF42**

Contents: 1 base/rear section and 1 front door with 2 locks (NSQ tool) (IDF24 has only 1 lock).

RE-BOX® 10GbE Cable Entry
Pre-Configured Version

Switch Cap.	Height x Width x Depth	Catalog No.
2U	32"(813) x 24.2"(615) x 7"(178)	**RE210G**
5U	32"(813) x 24.2"(615) x 10"(254)	**RE410G**

Same as standard pre-configured RE-BOX® except top conduit knockouts replaced with adjustable, high cable capacity grommet plate.
Contents: base/rear section with welded 19" brackets for 2 hubs, front door with 2 locks (NSQ tool), a set of 19" extension brackets for 3 additional hubs (RE4xx only) and a set 19" bottom hinge brackets for patch panels.
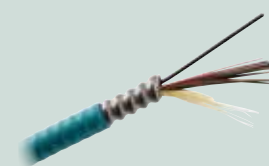
Power Connections

When it comes to safety, most everyone knows that water and electricity can create a dangerous environment. From outdoor applications to indoor wash downs, ensuring a watertight seal for electrical devices is critical to ensuring maximum safety of personnel in any wet environment.

Locking Devices

NEMA Rating	Poles/Wires	Locking Devices Plug	Locking Devices Connector	Locking Devices Receptacle	Straight Blade Devices Plug	Straight Blade Devices Connector	Straight Blade Devices Receptacle
15A 125V	2P/3W	**24W47H**	**25W47H**	**65W47H**	**14W47H**	**15W47H**	**60W47H**
15A 277V AC	2P/3W	**24W34H**	**25W34H**	**65W34H**	—	—	—
20A 125V	2P/3W	**26W47H**	**27W47H**	**67W47H**	**14W33H**	**15W33H**	**60W33H**
20A 250V	2P/3W	**26W48H**	**27W48H**	**67W48H**	**14W48H**	**15W48H**	**60W48H**
20A 277V AC	2P/3W	**26W49H**	**27W49H**	**67W49H**	—	—	—
20A 125/250V AC	3P/4W	**26W74H**	**27W74H**	**67W74H**	—	—	—
20A 3Ø 250V	3P/4W	**26W75H**	**27W75H**	**67W75H**	—	—	—
30A 3Ø 250V AC	3P/4W	**28W75H**	**29W75H**	**69W75H**	—	—	—
30A 3Ø 480V AC	3P/4W	**28W76H**	**29W76H**	**69W76H**	—	—	—

Additional Products of Interest

Hubbell Copper Solutions
Designed to exceed all applicable standards for performance and reliability, Hubbell copper solutions offer a fully integrated system of copper cabling and components.

Single Pole
Hubbell's Single Pole connectors are made from a specially formulated thermoplastic elastomer that resists cracking in cold, hot or oily conditions as well as any other harmful environments. The connectors have been designed so they are easy to assemble, requiring no special tools.

Fiber Cable
Hubbell's full line of indoor and outdoor fiber cables supports a variety of rugged deployment applications, delivering high speed fiber optic service to remote locations. Interlock armored indoor cable is available for direct building deployment without the need for inner duct tubing. Loose tube outdoor fiber cable, available in armored or non armored, is a rugged gel-free construction suitable for direct burial between facilities.

Secondary education facilities often have their own medical centers and health services for students, including on-site clinics and sports rehabilitation/physical therapy centers. Medical centers also require data connections to manage student medical records. In addition, many sports rehab/physical therapy centers use hydrotherapy, requiring nearby connections to have ingress protection against water.

Installation Efficiency
While Hubbell Hospital Grade and Tamper-Resistant Receptacles are put through comprehensive rigorous testing to accommodate abrupt plug removal and impact, they are also quick and easy to install.

Power, Data and Audio/Video Delivery
Hubbell's data, audio and video connectivity support digital imaging and electronic medical records while higher capacity 50 and 60 Amp power devices deliver power for diagnostic equipment.

Nurse's Office • Medical Centers • Imaging • Walk-In Clinics

Hospital Grade Receptacles

Hubbell understands that healthcare is where safety, reliability and performance matters the most. These devices feature exclusive nickel-plated bypass power contact design to ensure uninterrupted power and a four-point grounding system for low resistance to fault currents.

Hospital Grade ● Receptacles

Type	Color	15A 125V	20A 125V
Duplex	Ivory	**HBL8200I**	**HBL8300I**
	Red	**HBL8200RED**	**HBL8300RED**
	White	**HBL8200W**	**HBL8300W**
	Blue	**—**	**HBL8300BL**
	Brown	**HBL8200**	**HBL8300**
	Gray	**HBL8200GY**	**HBL8300GY**
	Light Almond	**HBL8200LA**	**HBL8300LA**
Tamper-Resistant	Ivory	**HBL8200SGIA**	**HBL8300SGIA**
	Red	**HBL8200SGRA**	**HBL8300SGRA**
	White	**HBL8200SGWA**	**HBL8300SGWA**
	Brown	**HBL8200SGA**	**HBL8300SGA**
	Gray	**HBL8200SGGYA**	**HBL8300SGGYA**
	Light Almond	**HBL8200SGLA**	**HBL8300SGLA**

Personnel Protection

Outpatient healthcare facilities within an institution require the same level of performance as hospitals. Medical care centers and walk-in clinics require the safety and convenience of tamper-resistant receptacles. Hubbell tamper-resistant receptacles restrict improper access to energized contacts.

AUTOGUARD® Self Test
Hospital Grade ● GFCI Receptacles

Description	Color	15A 125V	20A 125V
Flush, polyester face, back and side wired, multiple drive screws	Black	GFR8200SGBK	GFR8300SGBK
	Brown	GFR8200SG	GFR8300SG
	Gray	GFR8200SGGY	GFR8300SGGY
	Ivory	GFR8200SGI	GFR8300SGI
	Red	GFR8200SGR	GFR8300SGR
	White	GFR8200SGW	GFR8300SGW

Hospital Grade ●
Tamper-Resistant GFCI Receptacles

Description	Color	15A 125V	20A 125V
Hospital Grade Flush, nylon face, back and side wired, multiple drive screws, automatic grounding clip	Brown	GFR8200HTR	GFR8300HTR
	Gray	GFR8200HGYTR	GFR8300HGYTR
	Ivory	GFR8200HITR	GFR8300HITR
	Light Almond	GFR8200HLATR	GFR8300HLATR
	Red	GFR8200HRTR	GFR8300HRTR
	White	GFR8200HWTR	GFR8300HWTR

Data and Audio/Video Connectivity

Healthcare facilities contain a variety of high-tech imaging and diagnostic equipment to determine a patient's condition. Many of these require higher capacity power and data connections than traditional conventional outlets and connectors can provide.

NEXTSPEED® Shielded Jacks, Category 6/10GbE

Category	Pkg. Quantity	B-Wired Catalog No.	A-Wired Catalog No.
6	2	SJ62B	SJ62A
6	24	SJ624B	SJ624A
5e	2	SJ5E2B	SJ5E2A
5e	24	SJ5E24B	SJ5E24A

NEXTSPEED® Shielded Category 6A, Patch Cords

1 patch cord	PC6AxxYY

xx = Color: **B** (Blue), **BK** (Black), **GY** (Gray), **Y** (Yellow), **OR** (Orange), **R** (Red), **GN** (Green), **P** (Purple) or **W** (White)
YY (Standard Length: **01** (1ft), **03** (3ft), **05** (5ft), **07** (7ft), **10** (10ft), **15** (15ft) or **20** (20ft)

NEXTSPEED® Ascent Shielded Category 6A, Trunk Cable Assemblies

BIDnet Pre-Terminated Copper Trunk Assemblies improve air flow in the data center, decrease installation time and supply superior performance. All BIDnet pre-terminated cable assemblies are made-to-order items. Please call our Inside Sales team at (800) 626-0005 for lead-time and availability.

Shield Colored Dust Covers
100 per package

Color	Catalog Number
Blue	IDCSB
Black	IDCSBK
Green	IDCSGN
Orange	IDCSOR
Yellow	IDCSY

Power Connections

Insulgrip® Hospital Grade Plugs and Connectors are engineered to provide a high degree of durability and feature ribbed nylon housing for impact and chemical resistance. The powerful cord grip prevents conductor slippage and strain on terminals and adjusts to a wide range of cord sizes.

Straight Blade Plugs and Connectors

Amps	NEMA Rating	Poles/ Wires	Description	Plug	Angled Plug	Connector
15A 125V	5-15	2-Pole 3-Wire	Black/White	HBL8215C	—	HBL8219C
			Transparent	HBL8215CT	HBL8215CAT	HBL8219CT
			Valise; white	HBL8115V	—	HBL8119V
20A 125V	5-20	2-Pole 3-Wire	Black/White	HBL8315C	—	HBL8319C
			Transparent	HBL8315CT	HBL8315CAT	HBL8319CT
			Valise®; white	HBL8364V	—	—

Additional Products of Interest

Wall/Ceiling Duct System
The Hubbell Wall/Ceiling Duct System is utilized in combination with Hubbell's Trench Duct product offering for the enclosure of wiring to X-Ray machines or MRI equipment. Hubbell's aluminum wall duct is used for applications that require non ferrous metal raceways. Wall Duct is available in flush mount and surface mount versions.

Trench Duct System
The Hubbell Trench Duct System is utilized as an in-floor feeder for the Hubbell Wall Duct product line in hospital and other radiology facilities. Trench Duct can also be utilized as a stand-alone wire management system in retail store and general commercial applications.

Hubbell Switches and Illuminated Switches
Hubbell Toggle Switch's heavy duty nylon toggle resists abuse while the Hubbell Decorator Switch's thermoplastic rocker assures quiet operation and precise timing. One piece rivetless copper alloy spring contact arm and terminal plate provides long life.

Every education facility includes mechanical and maintenance areas that typically encompass a wide range of equipment like back-up generators, HVAC units and air handlers that need high-capacity, safe, and reliable power. Without it, an entire school or university can shut down. Mechanical and maintenance personnel also strive to keep energy costs down throughout education facilities.

Maintenance Rooms • Boiler Rooms • HVAC • Trade Schools

Safety and Durability
From CIRCUIT-LOCK® disconnect switches and interlock enclosures, to portable cords and cable management, Hubbell offers a variety of devices to provide safe, reliable power and control for mechanical equipment.

Power, Data and Audio/Video Delivery
With wireless and network communications now the norm, all personnel within an education facility require access to these services. Hubbell's Wireless Access Point Ceiling Boxes are ideal for delivering wireless service in remote mechanical and maintenance areas.

IEC Mechanical Interlock Enclosures

Hubbell's revolutionary CIRCUIT-LOCK® interlock enclosure incorporates the disconnect switch and IEC receptacle in one compact unit. At the same time, it eliminates the possibility of making or breaking the circuit under load or making a casual or lazy connection.

20 and 30 Amp

Rating Color Coded by Voltage		Poles/ Wires	Mechanical Interlock
20A 3Ø 480V		3P 4W	HBL420MI7W
30A 3Ø 250V		3P 4W	HBL430MI9W
30A 3Ø 480V		3P 4W	HBL430MI7W
30A 3Ø 600V		3P 4W	HBL430MI5W
30A 3ØY 277/480V		4P 5W	HBL530MI7W

For mating plug, replace **MI** with **P**. Ex. HBL420MI7W (mechanical interlock) to HBL420P7W (mating plug).

60 and 100 Amp

Rating Color Coded by Voltage		Poles/ Wires	Mechanical Interlock
60A 3Ø 250V		3P 4W	HBL460MI9W
60A 3Ø 480V		3P 4W	HBL460MI7W
60A 3Ø 600V		3P 4W	HBL460MI5W
60A 3ØY 120/208V		4P 5W	HBL560MI9W
100A 250V		3P 4W	HBL4100MI9W
100A 3Ø 480V		3P 4W	HBL4100MI7W
100A 3Ø 600V		3P 4W	HBL4100MI5W
100A 3ØY 120/208V		4P 5W	HBL5100MI9W

Cable Management

Cable reels can help eliminate unmanaged cords and cables that would otherwise cause trip hazards or an increased potential of electric shock. Hubbell offers a wide range of cord reels that provide cable protection, including watertight, industrial, commercial and static discharge reels.

Industrial Power Cord Reels
125V AC, 45 Ft (13.7m) Cable, Cable Type 12/3 SJEO

Cord End	NEMA Style	Catalog Number
HBL5269C 15A connector	5-15R	**HBL45123C**
HBL5369C 20A connector	5-20R	**HBL45123C20**
Portable outlet box; 15A gray duplex w/GFCI protection	5-15R	**HBL45123GF15**
Portable outlet box; 20A gray duplex w/GFCI protection	5-20R	**HBL45123GF20**

Commercial Cord Reels

Cord End	Watts (Max)	Cable Feet (m)	Volts AC	Cable Type	Catalog Number
Triple tap outlet; 15A	1200	40 (12.2)	125	12/3 SJTW	**HBLC40123TT**
Metallic incandescent hand lamp with receptacle; 13A	1625	25 (7.6)	125	14/3 SJT	**HBLC25143IN**
Fluorescent hand lamp and inline receptacle; 10A	1200	40 (12.2)	120	16/3 SJT	**HBLC40163FL**

Data, Audio and Video Connectivity

Hubbell's innovative ceiling and wireless access enclosures support multiple Wireless Access Points (WAP) and IP devices in remote and high traffic areas. These rugged all metal lockable enclosures can be mounted on the wall or in the ceiling grid allowing for convenient location installation.

Wireless Access Point Ceiling Box
Ceiling Box
Delivery: Aluminum enclosure, (1) fire-rated foam kit for cable entries and exits, hinged door equipment mounting plate (factory installed), lockable knob assembly and cable entry port and cover (factory installed)

Description	Mounting Plate Dims. H x W	External Dimensions H x W x D	Weight Capacity Lb. Door (Total)	Cable Entry Dimensions	Catalog No.
Universal WAP Enclosure	9.7" x 5.25"	4"x10"x12.7"	15 (20)	6.5"x1.2"	**WBC1**
CISCO® Aironet 1200 Series	N/A	10"x10.5"x13.2"	15 (20)	6.5"x1.2"	**WBC12**

WBC1 uses key no. 2233. **WBC12** uses key no. C346A.
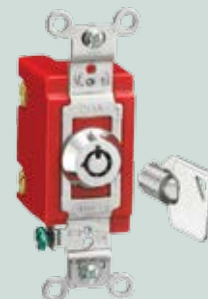
Wall Box
Delivery: (1) aluminum enclosure, (4) plastic conical screw anchors for #10 screw, (1) drill template, (4) #10 x 1 pan head screws and (4) flat steel washers, size #10

Description	External Dimensions H x W x D	Weight Lbs	Office White	Black
Wall Box	8"x11"x3"	1.5	**WBW1OW**	**WBW1BK**

Uses key no. 333. Spare Lock Key available, Catalog number **KEY333.**

Safety and Security

GFCIs are critical for protecting people when using portable line cords and outlets in a variety of indoor and outdoor applications. Portable GFCIs provide open-neutral protection for temporary power applications, this is required to meet OSHA requirements.

Circuit Guard® Portable GFCI Line Cords

Rating	Length	Single	Triple Tap
15A	2 ft.	**GFP2Cxx**	**GFP2TTxx**
120V AC	25 ft.	**GFP25Cxx**	**GFP25TTxx**

xx= **A** (Automatic) or **M** (Manual) Set.

Multiple Outlet Portable GFCI

Description	Rating	Cat. No.
4-Outlet; 2-Duplex; Manual Set	15A 120V AC	**GFP15M**
	20A 120V AC	**GFP20M**

Circuit Guard® In-Line GFCI
2 ft. cord length

Rating	Type	Automatic Set	Manual Set
15A 120V AC	Single	**GFPIL15125A**	**GFPIL15125M**
	Triple Tap	**GFPIL15125TRIA**	**GFPIL15125TRIM**
20A 120V AC	Locking	**GFPIL20125LKA**	**GFPIL20125LKM**
20A 250V AC	Locking	**GFPIL20250LKA**	**GFPIL20250LKM**

HUBBELL® EDUCATION
Application Guide

Scan to watch the Hubbell Education video.
Visit www.hubbell-wiring.com to access Hubbell's Education Solutions website.

Hubbell Installation Efficiency Product Solutions

Pre-Wired Raceway

Available in aluminum, steel and non-metallic versions, Hubbell's pre-wired raceway systems will keep your projects on schedule, reduce on-site labor and waste. Our local sales team is available to support your efforts.

Pre-Fab Solutions

Pre-fab solutions can reduce projects by as much as 30% while reducing on-site waste. The Rough in Ready Pre-Fab solution offered by Hubbell provides a variety of options from innovative bracket to cable-ready assemblies.

CONNEXION

Hubbell CONNEXION Zone Distribution System is a factory assembled modular plug-n-play system that delivers power and data to the workstation in raised floor installations.

SNAPConnect® Modular Devices

Hubbell's SNAPConnect® offers the latest in innovative design, to save time and money, while delivering a safe, reliable and durable connection. SNAPConnect® reduces labor costs during the initial installation and also provides future labor savings if device replacement or upgrade is ever required.

Hubbell Energy Efficiency Solutions

Sensors

Reduce energy consumption in a wide variety of commercial, residential and industrial applications with Hubbell lighting controls and sensors.

Hubbell's sensors facilitate compliance with the latest building codes and standards, including ASHRAE/IESNA 90.1, CEC's Title 24, and help obtain LEED® points.

Wireless is Fast

The WL-Series sensors install and setup fast. A typical installation involves only replacing the existing wall switch and pairing the desired battery powered sensor. These controls utilize a simplified 2-button, 6-second press and hold, commissioning procedure.

There is no need for remotes, computers, smartphones, or any other device to setup the system.

Power Strips

Hubbell's SpikeShield® Energy Saving Surge Protective Devices (ESPS Series) reduce power consumption by eliminating phantom power draw of unused electronics and appliances.

Hubbell offers a complete offering of power strips in various levels of outlet configurations and surge protection.

Literature Support

Hubbell offers an extensive literature library for product support. Downloadable PDFs are available online at www.hubbell-wiring.com under the media tab.