HUBBELL® EDUCATION Application Guide





HUBBELL
The Education Connection



Hubbell - The Education Connection













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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



Primary and Secondary Education Facilities





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









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

Universities and Continuing Education Facilities





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, and 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









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 under the U.S. Green Building Council.



- Occupancy and daylight harvesting sensors
- Electric vehicle charging stations
- 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, and 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





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



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.

Hubbell X-END AV Plug-n-Play System



· Four inch connector tail



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

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.



NSAV6C

×

FPTV Connection Enclosure

2-gang in-wall enclosure, white Steel cover for NSAV6 series, white **Power Kits**

Standard power kit, white Surge protected power kit, blue NSOKP **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 Blank plate, white Decorator plate, white iSTATION plate, white 4-port keystone plate, white

NSAVIMFW NP14W NP26W IMF1W 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

2000 sq. ft. ATD2000C 1000 sq. ft ATD1000C 500 sq. ft ATD500C

All ceiling sensors must use a control unit



Adaptive Ultrasonic Technology

2000 sq. ft. ATU2000C ATU1000C 1000 sq. ft 500 sq. ft ATU500C

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



Control Unit

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

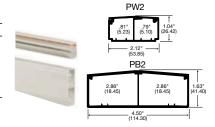
White enclosure 24"x12"x 8", 2-20 Amp	Non-Plenum	AVCE1
duplex receptacles & 2-gang back box	Plenum Rated	AVCE1P
Data Kit		AVCE1KIT



Two channel raceway. 5 ft., 7 ft. or 10 ft. lengths Description 7 ft. 10 ft. Base & Cover PW2BC5 PW2BC7 PW2ABC5 PW2ABC7 With Adhesive Base PR2R5 **PB2B10** PB2C5 **PB2C10** Cover Split Cover PB2SPL5 PB2SPL10

For full offering of Raceways and fittings, please visit our online catalog





Additional Products of Interest



Tamper-Resistant Receptacles

Hubbell offers a variety of tamper-resistant receptacles that comply with NEC requirements that all 15A and 20A 125V receptacles shall be "tamper-resistant" in child care facilities and residencies.



RE-BOX® Remote **Equipment Cabinet**

RE-BOX® provides an efficient and organized enclosure to house patch panels and active equipment in classrooms to a remote telecom room.



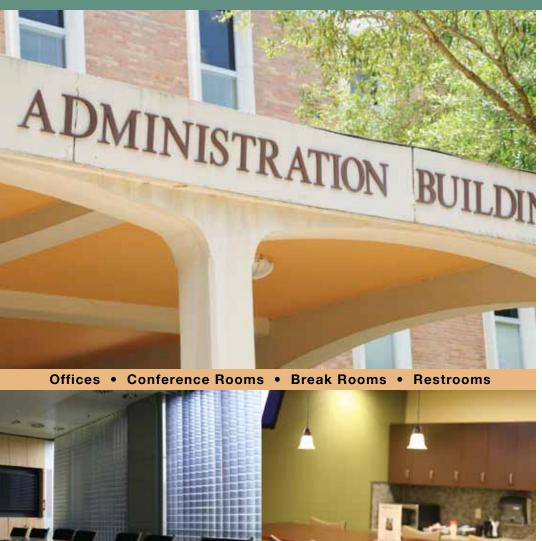
HDMI 110 UTP Extenders

Designed to provide aestheticallypleasing access to video and audio, the 110 style connections transport 1080p video and flawless audio.



Administration Offices





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.

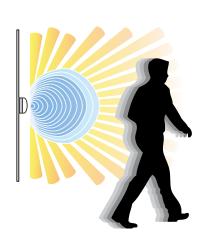
Energy Efficiency

Energy saving H-MOSS® wall switches automatically turn off lights in vacant offices and conference rooms to reduce energy consumption while electrical charging stations support innovative hybrid and electric vehicles 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.

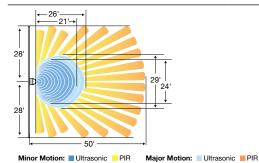
H-MOSS® Wall Switches



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

riadiodosini de 12017 (o, 100011 i idologosini de	2	·· ·-
Description	lvory	White
Single Circuit; 1 Button for manual/auto control Single Circuit; Auto control with no button Dual Circuit; 2 Buttons for manual/auto control Dual Circuit; Auto control with no button	AD1277I1 AD1277I1N AD1277I2 AD1277I2N	AD1277W1 AD1277W1N AD1277W2 AD1277W2N





Two Button



One Button



Administration Offices

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-thoughs 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

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

*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.

Subplates

Style Line® Decorator/	
GFCI for power and/or AV	



StyleLine® Decorator/ Duplex for power and/ or AV

S1SPDUSL

S1SP

Covers

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

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





Modules	900		
RCA Component, Video	, Solder, 1 Ur	nit IMCRS1	ХХ
RCA Component, Video Through, F/F Coupler, 1		IMCRF1	
HDMI Feed Thru Couple	r	HDMIC1	4
Keystone HDMI Feed Th	ıru	SFHC14	хх

Unloaded Modules

Keystone; 1-port; 1 Unit Keystone; 2-port; 1 Unit SC Angled; 1-duplex; 1.5 unit SC Angled; 2-duplex; 2 unit

IM1K1xx IM2K1xx IM1SCA15xx IM2SCA2xx



Blank 15-Pin/9-Pin HDMI

HD15/9-pin or HDMI; 1 unit w/ 3.5mm Stereo Jack; 1.5 unit w/ 3.5mm SJ+AV Conn; 2 unit

For complete listing of Hubbell Wiring and Premise products see our full line catalogs.

IMBDS1xx IMBDSA15xx 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		1111 2011	
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), El (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).



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).

Additional Products of Interest



SystemOne Recessed 6" and 8" Fire-Rated Poke-Throughs

Designed to handle today's increasing data and AV requirements while providing the highest quality finish with greater durability than paint. Available in the following plated finishes: brass, nickel & oil rubbed bronze, recessed SystemOne products are easily installed with a standard 6 or 8 inch core hole, or with our available pre-pour tubes.

Commercial Electric Vehicle Charging Stations (EVSE)



With the number of electric vehicles rapidly increasing, today's municipalities need to ensure they're making the right choice when it comes to charging stations. Today's charging stations must offer costeffective installation, superior reliability, safety and ease of use, while also blending nicely into the surrounding environment for a more stylish, attractive appearance.



Hubbell Surge Protective Devices (SPDs)

A cascading approach is encouraged for optimal protection that includes surge protection at the service entrance, branch panel and the point-of-use. Hubbell offers a comprehensive offering of panel surge products, innovative surge strips, and the broadest surge receptacle offering in the industry.



Residence Halls





Dorm Rooms • Common Areas • Kitchens • Restrooms



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.

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.



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.

Circuit Guard® GFCI Recentacles



GFTR15W



GFTR20W

Tamper-Resistant, Weather Resistant		15A 125V NEMA 5-15R	20A 125V NEMA 5-20R
Description	Color	15A 120 V AC	20A 125V AC
Flush, nylon face, back and side wired, multiple drive screws, automatic grounding clip	Almond Black Brown Gray Ivory Light Almond Office White Red	GFTR15AL GFTR15BK GFTR15 GFTR15GY GFTR15I GFTR15LA GFTR15OW GFTR15R	GFTR20AL GFTR20BK GFTR20 GFTR20GY GFTR20I GFTR20LA GFTR20OW GFTR20R

White



Residence Halls

Installation Efficency

Hubbell's SNAPConnect receptacles make installation fast, easy and consistent so you can complete projects sooner - saving more than three minutes per device!















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

Solid wire SNAP1RA Stranded wire SNAP2RA

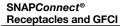


Hubbell SNAPConnect® Switches offer a modular design that improves installation efficiency and simplifies change-outs. Available in 15A and 20A, single-pole and three way devices.

SNAPConnect® Switches

Additional Products

of Interest



Config.	NEMA	Color	Duplex	Decorator	GFCI
DG	15A	Black	SNAP5262BKA	SNAP2152BKA	GFR15SNAPBKNA
([125V	Ivory	SNAP5262IA	SNAP2152IA	GFR15SNAPINA
		White	SNAP5262WA	SNAP2152WA	GFR15SNAPWNA
		Other	SNAP5262xx	SNAP2152xx	GFR15SNAPxxNA
□G □G	20A	Black	SNAP5362BKA	SNAP2162BKA	GFR20SNAPBKNA
([] [bw)	125V	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).

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	AP1277xx1
1-Circuit, no button	AP1277xx1N
2-Circuit, 2-buttons	AP1277xx2
1-Circuit, no button	AP1277xx2N



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



xx = Color: I (Ivory) or W (White)

Ceiling Sensors

Wall Mount Sensors

1600 sq. ft.

a control unit.

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

Ceiling and wall mount sensors must use





Control Units

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

ATP1600W

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









For complete listing of Hubbell Wiring and Premise products see our full line catalogs.

	SFFxxX	SFFGxx	SFRFGxx	SFGRFxx	_
	Bulkhead F/F	Bulkhead F/F Gold	Bulkhead F/F Gold	Recessed	
	F-Type Coupler	F-Type Coupler	F-Type to RCA	F-Type	
01010					

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		Si	ngle Gang			Double Gan	g
Delivery	1-Port	2-Port	3-Port	4-Port	6-Port	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), El (Electric Ivory), GY (Gray), LA (Light Almond), OW (Office White) or W (White).



Wireless Sensors

Start saving immediately with Hubbell's new wireless lighting controls. They require no additional wiring and install quickly perfect for rapidly changing environments or areas with difficult access.



SpikeShield® Surge Strips

Hubbell SpikeShield surge protective devices feature a wide range of products to handle every application or need. A good-better-best approach to surge protection levels offers products at every price point; this allows customers to choose the proper protection level for their application.



Food and General Services





Student Lounge Cafeterias • Kitchens • Book Stores •



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.

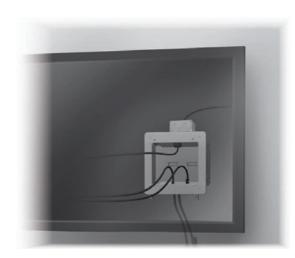
Safety and Durability

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

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



Power Kits

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



Food and General Services

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



Circuit-Lock® Unfused Disconnect Switches

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

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

Circuit-Lock®

rusea 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.

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).		



Additional Products of Interest



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.

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 Detire - Celer C	\ / -	D-1 AA/:	Dive	0	Danastaslas
NEMA Rating Color C	oded by voltage	Poles/Wires	Plug	Connector	Receptacles
20A 125V	(*) L5-20	2P/3W	HBL2311SW	HBL2313SW	HBL2310SW
20A 250V	1 L6-20	2P/3W	HBL2321SW	HBL2323SW	HBL2320SW
20A 277V AC	√ J ₀ L7-20	2P/3W	HBL2331SW	HBL2333SW	HBL2330SW
20A 3Ø 250V	(L15-20	3P/4W	HBL2421SW	HBL2423SW	HBL2420SW
30A 3Ø 250V AC	(15-30 L15-30	3P/4W	HBL2721SW	HBL2723SW	HBL2720SW
30A 3Ø 480V AC	x L16-30	3P/4W	HBL2731SW	HBL2733SW	HBL2730SW







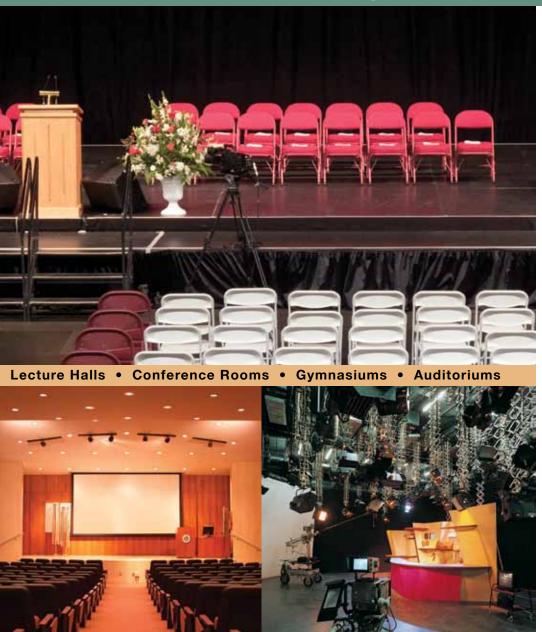


Stainless Steel Data Plates Stainless steel plates are designed for flush mounting of Hubbell connectivity providing corrosion resistance from frequent washdown.

³⁰A Units supplied with (2) 1 in. N.P.T. raintight conduit fittings. 60A Units supplied with (2) 11/4 in. N.P.T. raintight conduit fittings.

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.

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 (เาิร์) L15-20 20A 3Ø 250V 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



Auditorium and Performing Arts

Safety and Security

Single Pole Receptacles

400 Amp Panel Mount, mates

with 300 and 400 Amp plugs.

Thermoplastic elastomer

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	-	10
Description	Male	Female
300 Amn cable sizes #4 - 2/0	HRI 300Myy	HBI 300Evv

400 Amp, cable sizes 2/0 - 4/0 HBL400Mxx





HBL400Fxx

Through Hole Mo	ounting
Female	Male
HBLFRSxx	HBLMRSxx

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

Single Pole "T's" and Tri-Taps

Tapping "T" (F-F-M) Paralleling "T" (F-M-M) Tri-Tap (M-F-F-F) Tri-Tap (F-M-M-M)

HBLTxx **HBLPTxx** HBLM3Fxx HBLF3Mxx

Single Pole **Distribution Block**

HBL7DBxx 1 Male, 6 Females



Additional Products of Interest





Pro-Audio

Hubbell's pro-audio connectors including XLR, quarter inch, SPEAKON®, data USB and 1394. Type S connectors mate with Hubbell iSTATION modules allowing each device to mount into Hubbell delivery, workstation and panel solutions.

Data/Audio Wall Mount Enclosure

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

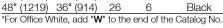
QUADCAB® Wall Mount Enclosure

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

		Rack	Rear W	/all		
Height	Depth	Units	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





High Amp Straight Blade

Hubbell offers a complete line of heavy duty 30, 50 and 60 Amp devices. Captive Allen head terminal screws permit high torque and clamping pressure required for larger size conductors used in copier, range and dryer applications.

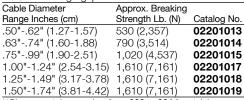
Wire Securedness and Strain Relief

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**

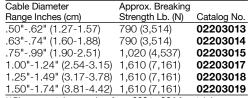
For permanent support when cable end is available to be installed through grip.



**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.



For complete listing of Hubbell Wiring and Premise products see our full line catalogs.

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



IEC Pin & Sleeve

Provide safe and dependable performance in the most demanding environments. Heavy duty nonconductive nylon construction provides impact and corrosion protection. Pin & Sleeve devices are available in 20A 600V to 100A 600V.



Science and Research Laboratories







Whether it's the typical highschool 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.

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 Dro Wired Decement

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

Steel Pre-Wired Raceway

Otooi i i o i i ii ou	··uoomay
Ivory or Gray Finish	
Description	Dimension*
HBL3000 Series	A: 1.53" (38.86)
Single Channel	B: 2.75" (69.85)
HBL4750 Series	A: 1.75" (44.45)
Single or Two Channel	B: 4.75" (120.65)
(with Divider)	
HBL6750 Series	A: 2.22" (56.39)
Two Channel	B: 6.75" (171.45)
(w/1 divider)	
Three Channel	
(w/2 dividers)	



Non-Metallic Pre-Wired Raceway

Office White Color	,
Description	Dimension*
PB2 BaseTrak® Series	A: 1.63" (41.40)
Single Channel	B: 4.50" (114.30)
PS3 Super BaseTrak® Series,	A: 1.97" (50.04)
Three Channel	B: 6.70" (170.18)





Science and Research Laboratories

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	(I [w)	
Description	Color	15A 125V	20A 125V
Flush, polyester face, back and side wired, multiple drive screws	Black Brown Gray Ivory Red White	GFR5262SGBK GFR5262SG GFR5262SGGY GFR5262SGI GFR5262SGR GFR5262SGW	GFR5362SGBK GFR5362SG GFR5362SGGY GFR5362SGI GFR5362SGR GFR5362SGW
Circuit Guard® GFCI Rec	eptacles		
Description	Color	15A 125V	20A 125V
	Black Brown Gray Ivory Red White	GFR5262BKTR GFR5262TR GFR5262GYTR GFR5262ITR GFR5262RTR GFR5262WTR	GFR5362BKTR GFR5362TR GFR5362GYTR GFR5362ITR GFR5362RTR 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.

		W.	· P	*		
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

ISB12	✓	_	_	√ *	
ISB6	✓	_	_	✓*	
ISB4	✓	/	✓	✓*	
ISB2	✓	✓	/	✓*	
ISB1	✓	✓	✓	✓*	
Series	PP	PL	PW	PB	

.00		v		
Use	#PB3RE	ĐΑ	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

HBL® Extra Heavy Duty

Industrial Spripe

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.









muusu	iai Series			-	100	
NEMA	Rating	Color	Duplex	Weather Resistant	Single	
DG	15A 125V	Brown	HBL5262	HBL5262WR	HBL5261	
([] w)		Black	HBL5262BK	HBL5262BKWR	HBL5261BK	
		Ivory	HBL5262I	HBL5262IWR	HBL5261I	
		Other	HBL5262x	HBL5262xWR	_	
DG	20A 125V	Brown	HBL5362	HBL5362WR	HBL5361	
(I Bw)		Black	HBL5362BK	HBL5362BKWR	HBL5361BK	
		lvory	HBL5362I	HBL5362IWR	HBL5361I	
		Other	HBL5362x	HBL5362xWR	HBL5361xx	

 $\mathbf{x} = \text{Color: } \mathbf{GY} \text{ (Gray), } \mathbf{R} \text{ (Red) and } \mathbf{W} \text{ (White). } \mathbf{xx} = \text{Color: } \mathbf{GRY} \text{ (Gray), and } \mathbf{W} \text{ (White).}$

Additional Products of Interest



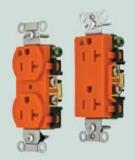
Cat 6A UTP and Shielded Jacks

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.



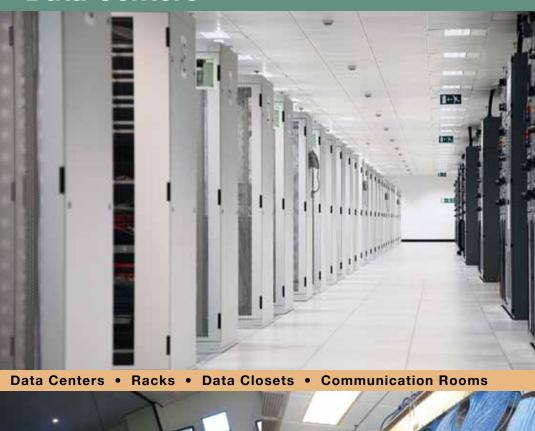
Isolated Ground Receptacles

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.

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	Channel					
Insert	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		
*Channe	*Channel death deep not include year apple expenies Pear apple expenies death is 73/"					

"#Channel depth does not include rear cable organizer. Rear cable organizer depth is 7% Contents: Front and rear vertical organizer, door, 16 - 3" black cable management spools.

NEXTERAME® 3" and 6" Equipment Backs

		, =qa.p	0110	
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.





Cable Management

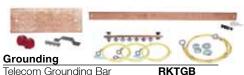
Hubbell Premise Wiring offers a full line of networking enclosures featuring enhanced cable management. Security features include locking split side doors.

H2 Series Network Cabinets

			Rack	
Height	Depth	Color	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







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

Telecom Grounding Bar 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.



12 LC 10G – OM3 Multimode 12 SC 10G - OM3 Multimode FCSC900K50GM12



High Density 144-Port 1U Enclosure FCRHD1UBK Black FCRHD1UGY Gray

Ultra Compact 12-Port LC Cassette OCLCHD50G3 10G-OM3

Standard LC-MPO Cassettes 10G-OM3





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

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

Additional Products of Interest



50 Amp Locking

An exclusive Hubbell design delivering Insulgrip® features, including insulated housing and superior strain relief. They are ideal for the most demanding high amperage applications.



BIDnet

All BIDnet pre-terminated cable assemblies are made-to-order items. BIDnet is available in Category 5e, 6 and 6A plenum and riser versions. To help reduce on-site labor and eliminate waste, BIDnet is available in 10 foot through 295 foot lengths. Please call our Inside Sales team at (800) 626-0005 for lead-time and availability.



Branch Panel Surge Protection

Hubbell SpikeShield® service entrance and branch panel surge protection devices reliably handle peak amperage capacity of 40kA to 320kA. They can be easily installed next to the panel to prevent over voltage that can impact sensitive data center equipment and mechanical systems.

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.

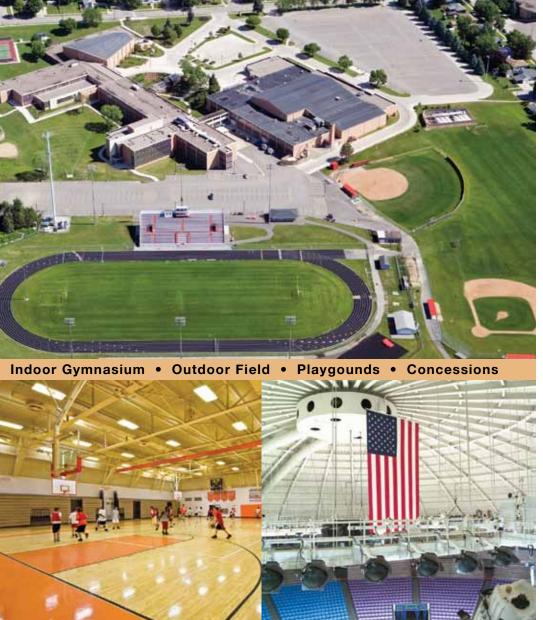
20A and 30A Plug, Connector, Receptacle Rating Color Coded Plug, Connector, Poles/Wires by Voltage Receptacle 20A 3P/4W HBL420xx12W 120/240V 20A 3P/4W HBL420xx7W 3Ø 480V 30A 3P/4W HBL430xx12W 120/240V 30A 3P/4W HBL430xx7W 30/ 4801 30A 3P/4W HBL430xx5W 3Ø 600V xx = Device: P (Plug), C (Connector) and R (Receptacle).

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

For complete listing of Hubbell Wiring and Premise products see our full line catalogs.

Athletic Facilities and Outdoor Recreation





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.

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

			Protection	Recepta	cle Type
Max Rating	Туре	Receptacle Rating	Overload/GFI	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.



Athletic Facilities and Outdoor Recreation

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.



mountait Oyotomo		
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
1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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

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.

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 Ver	rsion		
Max.			
Switch Switch			

Switch	Switch		
Cap.	Depth	Height x Width x Depth	Catalog #
2Ú	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
$\mathbf{x}\mathbf{x} = \mathbf{C}$	olor: B (Black	k) 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

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.
2Ú	32"(813) x 24.2"(615) x 7"(178)	RE210G
5U	32"(813) x 24.2"(615) x 10"(254)	RE410G
Same	is standard pro-configured RF-ROY® as	voent ton

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.



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.

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.





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.

Medical Centers and Health Services





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.

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 • I	Receptacles		[] [] w	0-0
Туре	Color	15A 125V	20A 125V	*(24X))*
Duplex	lvory Red White Blue Brown Gray Light Almond	HBL8200I HBL8200RED HBL8200W HBL8200 HBL8200GY HBL8200LA	HBL8300I HBL8300RED HBL8300W HBL8300BL HBL8300 HBL8300GY HBL8300LA	
Tamper-Resistant	lvory Red White Brown Gray Light Almond	HBL8200SGIA HBL8200SGRA HBL8200SGWA HBL8200SGA HBL8200SGGYA HBL8200SGLA	HBL8300SGIA HBL8300SGRA HBL8300SGWA HBL8300SGA HBL8300SGGYA HBL8300SGLA	

Medical Centers and Health Services

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 Re Description	eceptacles Color	15A 125V	20A 125V	0
Flush, polyester face, back and side wired, multiple drive screws	Black Brown Gray Ivory Red White	GFR8200SGBK GFR8200SG GFR8200SGGY GFR8200SGI GFR8200SGR GFR8200SGW	GFR8300SGBK GFR8300SG GFR8300SGGY GFR8300SGI GFR8300SGR GFR8300SGW	
Hospital Grade ● Tamper-Resistant GFCI R			/n	900
Description Hospital Grade Flush, nylon face, back and side wired, multiple drive screws, automatic grounding clip	Color Brown Gray Ivory Light Almond Red	GFR8200HTR GFR8200HGYTR GFR8200HITR GFR8200HLATR GFR8200HLATR GFR8200HRTR	GFR8300HTR GFR8300HGYTR GFR8300HITR GFR8300HLATR GFR8300HRTR	

Data and Audio/Video Connectivity

White

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.

GFR8200HWTR

NEXTSPEED® Shielded Jacks, Category 6/10GhF

Cutcgo	. , 0, 10000	_	
	Pkg.	B-Wired	A-Wired
Category	Quantity	Catalog No.	Catalog No.
6	2	SJ62B	SJ62A
6	24	SJ624B	SJ624A
5e	2	SJ5E2B	SJ5E2A
5e	24	SJ5E24B	SJ5E24A

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



NEXTSPEED® Shielded Category 6A, Patch Cords

GFR8300HWTR

i paicii cord	PODAXXII
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)

For complete listing of Hubbell Wiring and Premise products see our full line catalogs.

Snieia	Joiorea Dust Covers
100 per p	oackage
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 Transparent Valise; white	HBL8215C HBL8215CT HBL8115V	HBL8215CAT	HBL8219C HBL8219CT HBL8119V
20A 125V	5-20	2-Pole 3-Wire	Black/White Transparent	HBL8315C HBL8315CT	HBL8315CAT	HBL8319C HBL8319CT





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.



Mechanical and Maintenance Facilities







Every education facility includes mechanical and maintenance areas that typically encompass a wide range of equipment like backup 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.

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 Code	d	Poles/	Mechanical		
by Voltage		Wires	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 posting plug replace MI with D. Ev. LIDI 400MIZM					

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

or lazy connection.							
6	60 and 100 Amp						
F	Rating Color Code	d	Poles/	Mechanical			
b	y Voltage		Wires	Interlock			
	60A		3D 4\M	HBL460MI9W			
	3Ø 250V		01 400	TIBETOOMISW			
	60A	(Pa)	3D 4/V/	HBL460MI7W			
	3Ø 480V		3F 4VV	HBL400WII7W			
	60A		2D 4\A/	HBL460MI5W			
	3Ø 600V		SF 4VV	HBL460IVIISW			
	60A		4D E\\\	HBL560MI9W			
	3ØY 120/208V		45 300	HPF200IAIIAAA			
	100A		2D 4\A/	HBL4100MI9W			
	250V		SF 4VV	HDL4100IVII9W			
	100A	6	2D 4\A/	HBL4100MI7W			
	3Ø 480V		3P 4VV	HBL4100WII7W			
	100A	(Pa)	2D 4\A/	HBL4100MI5W			
	3Ø 600V		3P 4VV	HDL4100MISW			
	100A		4D C\4/	LIDI E400MIOW			
	3ØY 120/208V		4P 5VV	HBL5100MI9W			
_							

Mechanical and Maintenance Facilities

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

	NEMA	
Cord End	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

	vvatts	Cable	VOITS		
Cord End	(Max)	Feet (m)	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



Additional Products

of Interest

Portable Outlet Boxes

Portable non-metallic outlet boxes provide a safe, rugged, portable enclosure with an integral sealed cord connector fitting that also work well for pendant applications.

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)

	Mounting Plate	External Dimensions	Weight Capacity Lb.	Cable Entry	
Description	Dims. H x W	HxWxD	Door (Total)	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	s N/A	10"x10.5"x13.2"	15 (20)	6.5"x1.2"	WBC12

WBC1 uses key no. 2233. WBC12 uses key no. C346A.

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

	External Dimensions	Weight			
Description	HxWxD	Lbs	Office White	Black	
Wall Box	8"x11"x3"	1.5	WBW10W	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**

Multiple Outlet



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

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

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

In-Line GFCI 2 ft. cord length

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

For complete listing of Hubbell Wiring and Premise products see our full line catalogs.



Barrel Key Switch

An ideal solution for applications that require authorized access only for a secure level of control.



Disconnect Switches for Use with Variable Frequency Drives

Hubbell's Disconnect Switch for Variable Frequency Drives (VFDs) prevents downtime from out of sequence equipment shutdowns. The HBLDS3VFD integrates a verified break before break auxiliary contact factory installed in the HBLDS3 30 Amp disconnect switch enclosure that interfaces directly with VFDs.



HUBBELL® EDUCATION



Application Guide



Scan to watch the Hubbell Education video.

Visit www.hubbell-wiring.comto 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

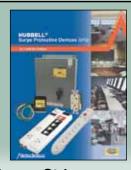
Reduce energy consumption in a wide variety of commercial, residential and industrial applications with Hubbell lighting controls and sensors.

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.



Commercial Electric Vehicle Charging Stations

PEP Stations (EVSEs) are exclusively represented by Hubbell. EVSEs are an ideal fit for commercial property electric vehicle charging requirements. Their distinctive styling provides property owners with a design that is complimentary to building architecture and supports a commitment to reducing emissions.



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.



www.hubbell-wiring.com www.hubbell-premise.com

