

HUBBELL® HEALTHCARE Application Guide

When Safety, Reliability and Performance Matter

EMERGENCY

Emergency
Patient Parking
in Entrance
Physician
Parking

EMERGENCY

Think Healthcare. Think HUBBELL.



Hubbell Healthcare Application Guide

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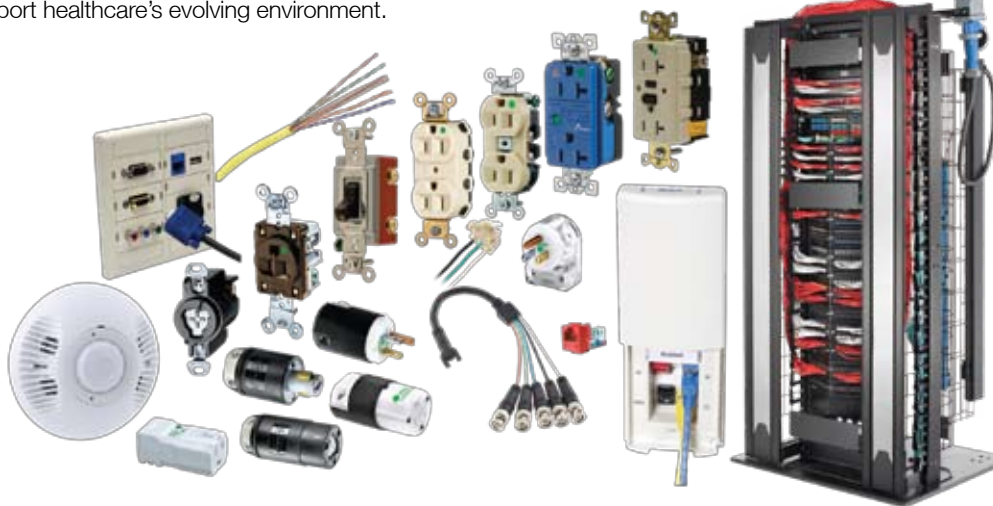
The Hubbell Healthcare Story

When reliability and performance matter

Our Ongoing Commitment

A lot has changed since Hubbell conceptualized the “Hospital Grade” standard back in the early 1970s to identify and ensure product performance for the hospital environment. The healthcare industry has experienced an evolution with several breakthroughs in sophisticated medical technologies and digital initiatives that are improving the quality of healthcare.

The environment may have changed, but Hubbell’s commitment has not. Whether it’s new digital diagnostic imaging equipment, mobile monitoring devices, state-of-the-art robotic surgery, or network communications, Hubbell understands that healthcare is where safety, reliability and performance matters most. That’s why we remain committed to developing superior products designed to support healthcare’s evolving environment.



Ensuring Maximum Sustainability

Hubbell recognizes that today’s healthcare facilities also have a need to improve efficiency and cut costs for maximum sustainability. These facilities have a long building lifespan, often expected to last for decades. At the same time, changes and upgrades in the healthcare environment are complex due to their 24/7 operation and strict regulations and codes. To ensure maximum sustainability, Hubbell devices and networking products support today’s more efficient healthcare operations while providing value, unmatched performance and extended lifespan to better match the building’s infrastructure lifecycle.

From the ICU to the Datacenter

With operating rooms, intensive care units, patient rooms and diagnostic centers, healthcare facilities include a wide range of complex spaces and applications for treating patients. These facilities also must serve a variety of visitors, care givers, administration and maintenance staff. Common areas, nurse stations, offices, conference rooms, kitchens and maintenance areas also all have their own unique needs. Whether it’s in a hospital or outpatient facility, Hubbell understands the equipment, applications and challenges of delivering power and communications in every healthcare environment—and we have the breadth of products to ensure safety, reliability and performance.



Durability



Energy Savings



Convergence



Bandwidth



Safety

More than Just a “Green Dot”



Hospital Grade is the receptacle of choice when specifying devices for healthcare. But while the little green dot signifies UL compliance, hospital grade devices are not all the same. Hubbell created the green dot and has been providing maximum value for healthcare facilities ever since.

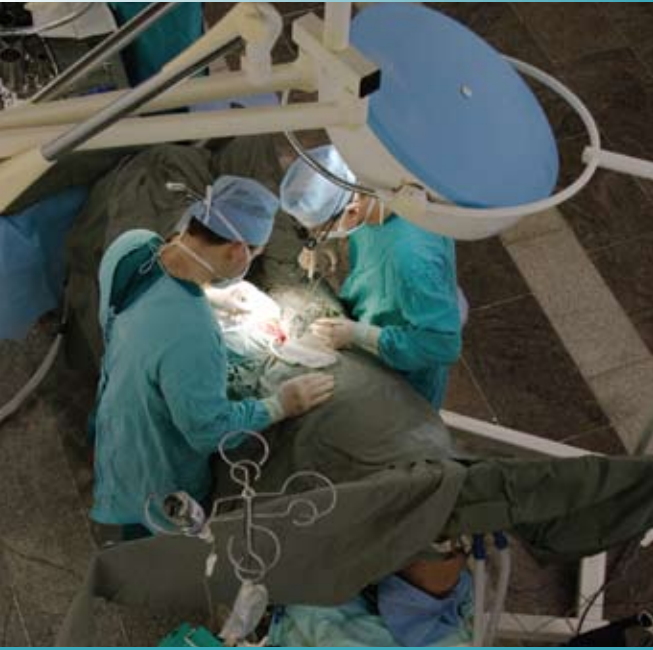
The TIA proposed healthcare standard



The TIA (Telecommunications Industry Association) recommends the following work area port count for each designated space. Each space has a low, medium and high range for the number of connections recommended for each work area (WA). When designing for specific areas, it is recommended to select a number between the mid point and the upper range to satisfy the application specific data and bandwidth requirements.

L = Low: 2 to 6 outlets
M = Medium: 6 to 14 outlets
H = High: > 14 outlets

HOSPITAL FACILITIES



Durability

Through years of innovation and a commitment to superior quality, Hubbell devices maintain their performance regardless of how many times equipment is connected or disconnected.



- Hospital Grade Receptacles
- Switches
- Hubbell Insulgrip® Plugs and Connectors
- Pin and Sleeve Devices
- NextSpeed® Copper Systems
- OptiChannel™ Fiber Systems

Performance

Hospitals are depended on for the reliability of their services, procedures and patient care. Hubbell devices ensure the reliability that hospitals and healthcare workers need for complete peace of mind.



- iFRAME® Data Center Solutions
- NextSpeed® Ascent Category 6A
- OptiChannel™ Keyed LC Solutions
- Hubbellock® Plugs and Receptacles
- Twist-Lock® Devices
- Watertight Plugs and Connectors



Sustainability

By providing energy savings, ease of installation and the ability to reuse and reconfigure systems, Hubbell ensures maximum value and sustainability for today's hospital facilities.



- Occupancy and Daylight Sensors
- Hubbell SNAPConnect™ Receptacles
- Hubbell SystemOne Floor Boxes and Fire-Rated Poke-Throughs
- Surface Raceway
- BIDnet™ Copper and Fiber Pre-Terminated Assemblies
- iSTATION™ Audio/Video Connections

Safety

Safety of patients, visitors and healthcare workers is a number one concern for hospitals. Hubbell takes safety extremely seriously, providing a variety of products that ensure superior protection of people and property.



- Tamper-Resistant Receptacles
- GFCI and Isolated Ground Receptacles
- Motor Disconnects
- TredTrak® and AccessTrak®
- Watertight Plugs and Connectors

HEALTHCARE FACILITIES



Durability

Outpatient healthcare facilities require the same level of performance as hospitals. Hubbell products provide that performance.



- Hospital Grade Receptacles
- Switches
- Insulgrip® Plugs and Connectors
- NextSpeed® Jacks and Panels
- RE-Box® and Wall Mount Cabinets

Performance

Large healthcare networks depend on the reliability of the infrastructure in their outpatient facilities to accomplish diagnostics and testing. Hubbell products are designed to ensure application assurance and provide maximum reliability inside these critical environments.



- Hubbellock® Plugs and Receptacles
- Twist-Lock® Devices
- Hospital Grade Surge Receptacles
- 50A Straight Blade Devices
- NextSpeed® Ascent Category 6A
- OptiChannel™ Keyed LC Connectivity Systems



Sustainability

There are many opportunities to maximize energy efficiency and control cost in outpatient healthcare facilities. Hubbell provides several sustainable solutions that ensure maximum value.



- Occupancy and Daylight Sensors
- Hubbell SNAPConnect™
- Hubbell SystemOne Floor Boxes and Fire-Rated Poke-Throughs
- Surface Raceway
- BIDnet™ Copper and Fiber Assemblies
- iSTATION™ Audio Video Products

Safety

Different outpatient facilities serve different types of patients. Pediatric and psychiatric clinics benefit from tamper-resistant receptacles and datacom plates while bathrooms and other wet locations must be GFCI protected. Hubbell products ensure maximum safety to meet these requirements.



- Tamper-Resistant Receptacles
- GFCI Receptacles
- Illuminated Switches
- TrukTrak® and AccessTrak®
- RE-Box® Equipment Cabinets
- Secure-IT™ Tamper-Resistant Face Plates

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Critical Care



Critical care spaces in a healthcare facility require 100% reliable power and data connections without interruptions. These demanding 24/7 environments encounter significant abuse such as abrupt plug removal and numerous insertions, being impacted with carts, beds and gurneys, exposure to harsh cleaning disinfectants—all of which can contribute to damage.

Hubbell products are put through comprehensive rigorous UL, TIA, IEEE and ETL testing, to meet requirements above and beyond the standards providing the industry with one of the highest performing most reliable devices.

HBL8200 Series Hospital Grade Receptacles



- Exclusive nickel-plated bypass power contact design ensures uninterrupted power
- Four-point grounding system provides redundant grounding for low resistance to fault currents
- Deep body design and one-piece nickel plated brass ground strap provide impact and corrosion resistance

NEXTSPEED® Ascent Category 6A Jacks



- TIA and ISO category 6A component compliance
- Labor savings: exclusive 1-punch termination reduces termination time by 75%
- Mating cycles exceed industry standard by two times

Emergency Power Circuits

Emergency systems that supply power in the event of an outage must be identified according to the National Electric Code (NEC®) Article 517.30(E). Hubbell offers receptacles and wall plates in a distinct color red and a selection of wall plates clearly marked "EMERGENCY" to meet this requirement.

TIA Healthcare Standard TIA-1179 (Proposed)

Area: **Critical Care**

Communication recommendations for outlet densities

Area	Workstation	LAN Connections
ICU	High Station	>14 in each WA
Neonatal ICU	High Station	>14 in each WA
Recovery	High Station	>14 in each WA



Ordering Information



Hospital Grade Receptacles

NEMA	Rating	Color	Duplex	Illuminated	Single
	15A 125V	Ivory	HBL8200I	HBL8200ILI	HBL8210I
		Red	HBL8200R	HBL8200ILR	HBL8210R
		White	HBL8200W	HBL8200ILW	HBL8210W
		Brown	HBL8200	—	HBL8210
		Gray	HBL8200GY	HBL8200ILGY	HBL8210GY
		Light Almond	HBL8200LA	—	—
	20A 125V	Ivory	HBL8300I	HBL8300ILI	HBL8310I
		Red	HBL8300R	HBL8300ILR	HBL8310R
		White	HBL8300W	HBL8300ILW	HBL8310W
		Blue	HBL8300BL	—	—
		Brown	HBL8300	—	HBL8310
		Gray	HBL8300GY	HBL8300ILGY	HBL8310GY
		Light Almond	HBL8300LA	—	—

The NEXTSPEED® Ascent Category 6A jack

Description	Catalog Number
Delivery: 1 per Bag/Carton of 25.	HJ6Axx
25 per Bag/Carton of 1	HJ6Axx25



NEC® is a registered trademark of the National Fire Protection Association (NFPA).



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ICU and Operating Rooms

Like critical care areas, the ICU and operating rooms in a healthcare facility require 100% reliable connections for the highly advanced electronic equipment, like monitoring devices, portable imaging equipment, and various networking connections—all of which require safe, reliable power, and extended bandwidth to ensure uninterrupted performance.

These sterile environments are also subject to strong disinfectants and harsh cleaners that can degrade some plastics and cause corrosion. Hubbell Hospital Grade devices are engineered to provide the highest degree of durability.

Insulgrip® Hospital Grade Plugs and Connectors



- Ribbed nylon housing is impact and chemical resistant
- Powerful cord grip prevent conductor slippage and strain on terminals
- Integral VARI-SIZE® insert adjusts to a wide range of cord sizes

SSF Stainless Steel Plates



- Superior corrosion resistance
- Designed to fit iSTATION™ modules and AV connectors
- Ease of use: front and rear-loading capabilities improves tamper resistance



Power and Communication

New advances in healthcare technology require reliable network and communications systems for surgeons and healthcare workers to quickly access the information they need and contact their peers in an emergency situation.

TIA Healthcare Standard TIA-1179 (Proposed)

Area: **Surgery/Procedure/Operating Rooms**

Communication recommendations for outlet densities

Area	Workstation	LAN Connections
Operating Room	High Station	>14 in each WA
ICU	High Station	>14 in each WA

Ordering Information



Straight Blade Plugs and Connectors

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

SSF Stainless Steel Plate

Gang	Ports	Catalog Number	With Label Field
Single Gang	1	SSF11	SSFL11
	2	SSF12	SSFL12
	3	SSF13	SSFL13
	4	SSF14	SSFL14
	6	SSF16	SSFL16
	Two Gang	4	SSF204
6		SSF206	SSFL206
9		SSF209	SSFL209
12		SSF212	SSFL212



All SSF plates will accept AV keystone connectors and XCELERATOR™ jacks.



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Patient Rooms



Patient rooms are now filled with many electronic devices that need various styles of Audio, Video, LAN, PoE and power connections. While the reliability of monitoring care equipment is the primary concern, functionality, safety and aesthetics are also needed. Hubbell's tamper-resistant receptacles protect people, illuminated devices help patients and staff locate switches and receptacles, and Style Line® Decorator devices match room décor.

To help healthcare facilities get spaces up and running faster or facilitating moves, adds and changes, Hubbell's SNAPConnect™ receptacles and iSTATION™ work area solutions save significant termination time while providing a fast and consistent installation every time.

The Digital Age

Patient rooms require more Data and AV connections than ever before. Everything from video distribution, specialty equipment connections to wireless access points and multiple LAN connections are being integrated into these spaces. Also ensures healthcare workers have immediate access to electronic health records and effective means of communicating.

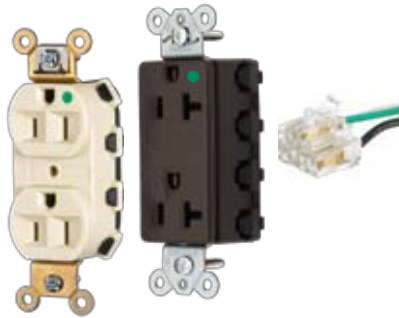
TIA Healthcare Standard TIA-1179 (Proposed)

Area: **Patient Rooms**

Communication recommendations for outlet densities

Area	Workstation	LAN Connections
Patient Room	High Station	>14 in each WA

SNAPConnect™ Hospital Grade Receptacles



- Fast, easy installation with SNAPConnect™ modular terminal instead of pigtails
- Clear terminal housing with no exposed live parts
- Compact size with a clean finished look

iSTATION™ Plates and Modules



- High density capabilities
- Pre-terminated X-END™ assemblies eliminate field termination on job site
- Supports multiple applications and connector configurations



Ordering Information



SNAPConnect™ Receptacles



Pigtail Terminals



Rating	NEMA	Color	Duplex	Style Line® Decorator	Description	Straight	Right Angle
	15A	Ivory	SNAP8200I	SNAP2172I	Clear terminal w/ 6-inch leads solid wire	SNAP6R1	SNAP1R
	125V	Red	SNAP8200R	SNAP2172R			
		White	SNAP8200W	SNAP2172W			
	20A	Ivory	SNAP8300I	SNAP2182I	Clear terminal w/ 6 inch leads stranded wire	SNAP6R2	SNAP2R
	125V	Red	SNAP8300R	SNAP2182R			
		White	SNAP8300W	SNAP2182W			

iSTATION™ Modular Face Plate Frames



Description	Gang	Catalog No.
Front loading frame	1	IMF1xx
	2	IMF2xx

iSTATION™ Stainless Steel Plates

Description	Gang	Catalog No.
Front loading frame; stainless steel	1	IMS1
	2	IMS2
	3	IMS3
	4	IMS4

The IMF/IMS series accept any modules in 3 unit combinations for 1-gang; and 6 unit combinations for 2-gang applications.

iSTATION™ Unloaded Modules



Description	Catalog No.
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

iSTATION™ Modules Blank 15-pin/9-pin HDMI



Description	Catalog No.
HD15/9-pin or HDMI; 1 unit w/ 3.5mm Stereo Jack; 1.5 unit w/ 3.5mm SJ+AV Conn; 2 unit	IMBDS1xx IMBDSA15xx IMB153X2xx

xx=color: AL (Almond), BK (Black), EI (Electric Ivory), GY (Gray), LA (Light Almond), OW (Office White) and W (White)



Restroom Areas

With a restroom in every patient room and throughout staff and public areas, hospitals and healthcare facilities can contain hundreds of restrooms. Required by code, receptacles in any wet area must be a ground fault circuit interrupter. Many healthcare restrooms require hospital grade GFCIs while others can use commercial-grade GFCIs. From extra heavy duty hospital grade and commercial receptacles to tamper-resistant, auto grounding and self test units, Hubbell has the GFCIs needed for restrooms and any other potentially wet areas in healthcare facilities.

In addition restrooms are an ideal area for motion sensing lighting controls. Hubbell has a complete offering of ultrasonic ceiling and wall sensors for turning lights off when restrooms are unoccupied.

Hospital Grade GFCI Receptacles



- Ground fault indicator flashes red when device has lost capability to provide protection
- Test button functionally tests both electronic components and trip mechanism
- No power at device face if reverse wired, eliminating false assumption of protection

Ultrasonic Occupancy Sensors



- Active ultrasonic sensing provides superior minor motion sensitivity, even in stalls
- Adaptive Technology automatically adjusts sensor settings for optimum performance
- Use optional isolated relay to integrate with building automation and HVAC systems



GFCI Safety Code

The combination of GFCI protection and tamper-resistant safety provides an 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 for harsh, damp applications.

While GFCIs protect people in bathrooms, scrub rooms, kitchenettes and other potentially wet locations throughout healthcare facilities, they should not be used in critical care patient areas or for electrical life support equipment in ICUs and operating rooms because of the possibility of power interruption.

Ordering Information

GFCI Receptacles



Rating	NEMA	Color*	Tamper-Resistant/AUTOGUARD™ Self Test	Circuit Guard®	Circuit Guard®
	15A 125V	Ivory	GFR8200SGI	GFR8200HITR	GFR8200HILA
		Red	GFR8200SGR	GFR8200HRTR	GFR8200HRLA
		White	GFR8200SGW	GFR8200HWTR	GFR8200HWLA
	20A 125V	Ivory	GFR8300SGI	GFR8300HITR	GFR8300HILA
		Red	GFR8300SGR	GFR8300HRTR	GFR8300HRLA
		White	GFR8300SGW	GFR8300HWTR	GFR8300HWLA

Style Line® Decorator Receptacles



Rating	NEMA	Color*	Duplex	Isolated Ground
	15A 125V	Ivory	HBL2172I	—
		Red	HBL2172R	—
		White	HBL2172WA	—
	20A 125V	Ivory	HBL2182I	IG2182I
		Red	HBL2182R	—
		White	HBL2182WA	IG2182WA
		Orange	—	IG2182

Occupancy Sensor



Description	Color	Catalog No.
Ultrasonic Adaptive Technology, wall switch w/o button, 400 sq. ft.	Ivory	AU1277I1N
Ultrasonic Adaptive Technology, ceiling sensor, 2000 sq. ft.	White	AU1277W1N
Control unit; 120/277V AC, 50/60 Hz; for use with ceiling sensors		CU300A



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Nurse's Station

Nurse's stations are the command center for each patient care area within a healthcare facility. Here it is crucial to maintain accurate and timely records, pharmacy requests, wireless nurse call systems and intra-hospital communication. This requires a high level of network connectivity and power reliability.

As more computers are deployed, the need to protect them against transient voltage surges is critical. Hubbell carries a complete line of the latest copper and fiber datacom network solutions as well as an entire line of surge protective devices that provide superior point-of-use protection from voltage surges where sensitive electronic equipment is deployed.



Electronic Health Records

More and more, healthcare is moving toward electronic communication and records. All patient records, test results, pharmacy requests and doctors' care orders are being logged and transferred electronically, requiring both high-performance network transmission and data protection. Hubbell offers the very latest network solutions that provide the highest bandwidth and reliability available.

TIA Healthcare Standard TIA-1179 (Proposed)

Area: **Patient Rooms**

Communication recommendations for outlet densities

Area	Workstation	LAN Connections
Nurses Stations	High Station	>14 in each WA
Registration	Medium Station	6-14 in each WA

Surge Protection and Isolated Ground Hospital Grade Devices



Isolated Ground

- Isolates ground contacts from the mounting strap
- Green grounding screw connected directly to grounding contacts

Surge Protection Receptacles

- Green LED on surge protection receptacle indicates power is "on" and device is actively protecting against voltage surges

NEXTSPEED® and SPEEDGAIN® Category 6, 5e, 3, and USOC Jacks



- Industry's first tested Category 6 component compliant jack
- Labor savings: exclusive 1-punch termination reduces termination time by 75%
- Mating cycles exceed industry standards by two times
- Bulk packaged to eliminate excess packing waste



Ordering Information



Surge Protection Receptacles



NEMA	Rating	Color*	Duplex	Isolated Ground	4-PLEX®	Style Line® Decorator	
						Duplex	Decorator
	15A 125V	Blue	HBL8262SA	IG8262SA	—	—	—
		Ivory	HBL8262ISA	IG8262ISA	—	—	—
		Red	HBL8262RSA	IG8262RSA	—	IG8200R	—
		Orange	—	IG8262OSA	—	IG8200	—
		White	HBL8262WSA	IG8262WSA	—	—	—
	20A 125V	Blue	HBL8362SA	IG8362SA	HBL420HS	—	—
		Ivory	HBL8362ISA	IG8362ISA	HBL420HIS	—	IG2182I
		Red	HBL8362RSA	IG8362RSA	—	IG8300R	—
		Orange	—	IG8362OSA	—	IG8300	IG2182
		White	HBL8362WSA	IG8362WSA	—	—	IG2182WA

XCELERATOR™ Jacks



Color*	Category 6	Category 5e	Category 3	6-Position USOC
Black	HXJ6BK	HXJ5EBK	HXJ3BK	HXJUBK
Blue	HXJ6B	HXJ5EB	HXJ3B	HXJUB
Electric Ivory	HXJ6EI	HXJ5EEI	HXJ3EI	HXJUEI
Green	HXJ6GN	HXJ5EGN	HXJ3GN	HXJUGN
Orange	HXJ6OR	HXJ5EOR	HXJ3OR	HXJUOR
Red	HXJ6R	HXJ5ER	HXJ3R	HXJUR
White	HXJ6W	HXJ5EW	HXJ3W	HXJUW
Yellow	HXJ6Y	HXJ5EY	HXJ3Y	HXJUY
Other colors	HXJ6xx	HXJ5Exx	HXJ3xx	HXJUxx

xx=color: AL (Almond), GL (Gold), GY (Gray), LA (LightAlmond), OW (Office White), P (Purple) and TI (Telco Ivory)



Hubbell Healthcare Application Guide

Diagnostics

Today's medical diagnostics are a far cry from the traditional X-ray film of the past. Healthcare facilities contain a variety of high-tech imaging and diagnostic equipment that more accurately determine a patient's condition. Many of these require higher capacity power and data connections than traditional conventional outlets and connectors can provide.

The Hubbelock® mobile x-ray devices are specifically designed to support unique connection points for diagnostic equipment, providing an extra margin of safety and maintaining their connection even if they are pulled and tugged.

Hubbelock® Receptacles, Plugs and Connectors

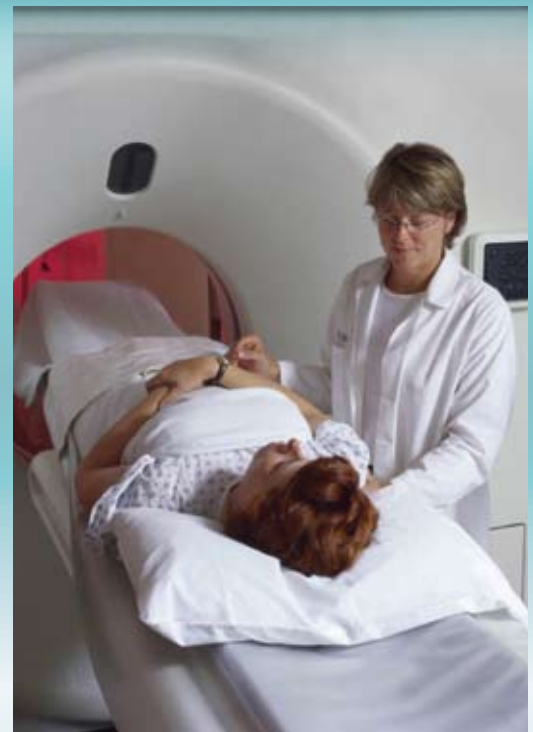


- Prevents accidental disconnects
- Molded plug contacts prevent distortion
- Connections are made internal to the device

NEXTSPEED® Shielded Jacks



- Quick and easy terminal grounding connection
- Tool less termination
- Third-party tested and verified



Larger File Sizes

Diagnostic imaging equipment like digital X-ray, MRI and ultrasound need to capture and send images quickly and reliably. Many of these images are contained within large size file, requiring Gigabit and 10 Gigabit networks to deliver and store these files in the data centers. In addition to ensuring power continuity, Hubbell offers a full line of high performance shielded connectivity for those certain areas where EMI noise may be present.

TIA Healthcare Standard TIA-1179 (Proposed)

Area: **Diagnostic and Treatment**

Communication recommendations for outlet densities

Area	Workstation	LAN Connections
MRI & CT Scanner	High Station	>14 in each WA
Simulator Room	High Station	>14 in each WA
Linear Accelerator	High Station	>14 in each WA

Ordering Information

Hubbelock®

Rating	NEMA	Description	Catalog Number
	20A 125V	Plug, nylon cover, thermoset interior	HBL23014HGB
		Plug, armored, epoxy filled, rubber cord grip	HBL23004HG
		Connector, cover, thermoset interior	HBL23001HGB
		Receptacle, black, back wired	HBL23000HG



Hubbelock® Mobile X-Ray Devices

	50A 250V	Receptacle with stainless steel plate assembly	HBL25505
		Receptacle with cast aluminum plate assembly	HBL25503
		Plug, with epoxy kit, less cord clamp	HBL25515
		Plug, with cord clamp, less epoxy kit	HBL25525
	60A 250V	Receptacle with stainless steel plate assembly	HBL25605
		Receptacle with cast aluminum plate assembly	HBL25603
		Plug, with epoxy kit, less cord clamp	HBL25615
		Plug, with cord clamp, less epoxy kit	HBL25625



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	SJ5EB	SJ5EA
5e	24	SJ5EB24	SJ5EA24



Shield Colored Dust Covers 100 per package.

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



Hubbell Healthcare Application Guide

Examination Rooms

Patient exam rooms in hospitals and outpatient healthcare facilities have a need for safe, reliable power connections. Pediatric exam rooms require tamper-resistant receptacles while any outlet near a sink, even a small exam room sink, must be GFCI protected.

The ample lighting needed in exam rooms are often left on when doctors and patients leave the exam room, wasting significant energy. By simply outfitting these spaces with occupancy sensors, the lights will turn off when the room is vacant, providing immediate energy savings.



Dual Technology

Hubbell H-MOSS® Occupancy Sensors are available with dual technology, that uses both passive infrared and ultrasonic sensing technology. Because both technologies are used to detect occupancy, these sensors minimize the risk of false triggering and provide the best performing sensor for most applications.

Occupancy Wall Switch Sensors



- No neutral required for fast switch replacement
- Optional Hubbell patented adaptive technology eliminates manual adjustments
- No minimum load requirements

Secure-IT™ Plates



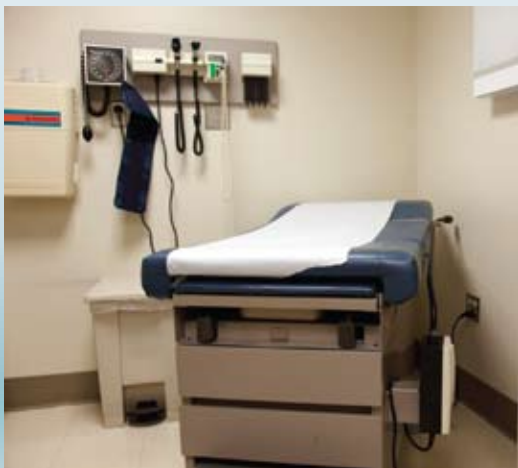
- The sliding cover provides better protection and longer life
- Multiple labeling options for easy station identification
- Fiber and multimedia capabilities

TIA Healthcare Standard TIA-1179 (Proposed)

Area: **Patient Rooms**

Communication recommendations for outlet densities



Area	Workstation	LAN Connections
Nurses Stations	High Station	>14 in each WA
Registration	Medium Station	6-14 in each WA



Ordering Information



Slender/Compact Receptacles

NEMA	Rating	Color	Duplex
	15A 125V	Ivory	HBL8200HI
		Red	HBL8200HR
		White	HBL8200HW
	20A 125V	Ivory	HBL8300HI
		Red	HBL8300HR
		White	HBL8300HW

Occupancy Sensor

Description	Color	Catalog No.
Adaptive Technology, Dual (Ultrasonic and Passive Infrared) wall switch with one button for manual/auto control, 1,000 sq. ft.	Ivory White	AD12771I AD1277W1
Passive Infrared, wall switch, 1,200 sq. ft.	Ivory White	WS1277I WS1277W

Tamper-Resistant Face Plates

Size	Color	Face Plate	Replacement Cover	Cable-Thru Plate
1-gang/4-port	Black	TPF1BK	TPFCLBK	TPCP1BK
1-gang/4-port	Gray	TPF1GY	TPFCLGY	TPCP1GY
1-gang/4-port	Office White	TPF1OW	TPFCLOW	TPCP1OW
1-gang/4-port	White	TPF1WH	TPFCLWH	TPCP1WH

Weatherproof Face Plates

Size	Color	Face Plate	Replacement Cover
1-gang/4-port	Gray	TWPF1GY	ERFCLGY



Physical Therapy Areas

Physical therapy centers and spaces provide a variety of treatment options to help patients develop, maintain and restore movement and function. These areas can be a typical gym type or they can be hydrotherapy areas where water is present.

Hubbell has delivery system products including non-metallic multi-service floor boxes that deliver both power and datacom to any point in the room.

Floor Boxes



- An economical solution for electrical power or a combination of power and voice/data applications
- Designed specifically for slab-on-grade installation
- Quick and easy installation is assured using a push in place leveling system

HI-IMPACT RJ45 Connectors



- IP67 and IP66 rated for ingress protection against dust and liquids
- Durable, rugged construction for harsh environments
- Verified to Category 6 and 5e and supports power over Ethernet (PoE and PoE+)



JLOAD™ Multimedia Outlet

Install receptacles and voice/data devices exactly where they are needed, in the smallest space possible. JLOAD™ multimedia outlet; specifically designed to provide power, cat. 5e and coaxial in a single gang box; requires JLOAD™ multimedia box RJ600; perfect for HDTV and computer use where a combination of power and data are needed; includes decorator frame; one cat. 5e; one F-connector and one power receptacle 125V with voltage divider.

Ordering Information

Floor Boxes For Concrete Floors

Description	Color	Catalog Number
Flange and Hinged Door Cover Assembly	Solid Brass	RF406BR
Includes 15A 125V duplex receptacle, gasket, floor leveling PVC ring, high impact and chemically resistant nylon.	Almond	RF406AL
	Black	RF406BK
PVC Floor Box with Concrete Protective Cover	Gray	RF400
Low Voltage Divider; for use in PVC box RF400, when JLOAD™ Multimedia Outlet is used.	Gray	RF408

JLOAD™ Multimedia Outlet

Description	Rating	Tamper-Resistant
JLOAD™ Multimedia Outlet; Includes decorator frame, (1) Cat. 5e, (1) F-connector and (1) receptacle with voltage divider.	15A 125V	RJ650xxTR
	20A 125V	RJ620xxTR
Includes decorator frame with (2) open ports for custom configuration and (1) power receptacle with voltage divider.	15A 125V	RJ65xxTR
	20A 125V	RJ62xxTR

xx=color: AL (Almond), BK (Black), GY (Gray), I (Ivory), LA (Light Almond) and W (White)

HI-IMPACT Datacom Connectors

Description	Catalog Number
Category 6 Connector (UTP)	HI6
Category 5e Connector	HI5E
Inline Coupler, Category 5e	HI5EC
Protective Cap	HIC





The Right Image

Having the very latest AV applications along with power and data at the point of use is not only critical to supporting converging applications, it takes full advantage of today's technological advancements.

TIA Healthcare Standard TIA-1179 (Proposed)

Area: **Operations**

Communication recommendations for outlet densities

Area	Workstation	LAN Connections
Auditorium	High Station	>14 in each WA
Conference Room	Medium Station	6-14 in each WA



Hubbell Healthcare Application Guide

Auditorium and Conference Rooms

Large healthcare facilities include auditoriums and conference rooms where medical seminars, continuing education and meetings are held. These spaces are critical for communicating information. To better facilitate these meetings, auditoriums and conference rooms must also accommodate the latest AV technology that include display devices, sound systems, video conferencing and more.

Hubbell's iSTATION™ and delivery system products provide the broadest range of AV, data connectors, floor boxes and fire-rated poke-throughs for the multimedia experience needed.

Table Top Boxes



- Pre-wired receptacles with corded plug for easy installation
- Ready to integrate with X-END™ plug-n-play system
- Solid aluminum and brass construction for durability and aesthetic finish

Hubbell Multimedia Connectivity



- X-END™ plug-n-play multi-media system allows for higher capacity applications in a smaller footprint
- X-END™ system allows multiple applications to run over the same horizontal run – increasing flexibility and reducing cost
- AV Ceiling enclosure is designed for power, data and active AV devices in the ceiling (Cat. No. AVCE1H)

Ordering Information

Tabletop Box

Description	Catalog Number
Low Voltage; (1) keystone opening	TTBKSxx*
Low Voltage; (1) XLR mic. jack installed	TTBXLxx
Dual Service; (1) pre-wired 15A outlet with 9 foot power supply cord; (1) 3.5mm audio; (1) 15-pin gender changer F/F; (2) keystone openings	TTBDS1xx*
Dual Service; (2) pre-wired 15A outlets w/ 9 ft. power supply cord; (2) keystone openings	TTBDS2xx*

* Keystone modules sold separately
 Replace xx: BK (Black anodized alum), AL (Clear anodized alum.) or BR (solid brass).

Hubbell Multimedia Connectivity

Description	Catalog Number
HDMI decorator frame, 1 port	NS801xx
HDMI decorator frame, 2 port	NS802xx
HXJ Series Jack, 10GbE	HXJ6Axx
HXJ Series Jack, Cat 6	HXJ6xx
HXJ Series Jack, Cat 5e	HXJ5Exx
Data Coupler, Cat 6	SFC6BK
Data Coupler, Cat 5e	SFC5EBK
USB Coupler, A to B, Blue	SFUSBABB
USB Coupler, A to A, Blue	SFUSBAAB
S-Video, 110 Termination	SFSV110BK
S-Video, Pass-through	SFSVBK

Replace xx: AL (Almond), BK (Black), GY (Gray), I (Ivory), LA (Light Almond) or W (White)

X-End™ Patch Cords

Description	Catalog Number
S-Video & 3.5mm	AVS35xx
S-Video & 2 RCA	AVSRAxx
3 RCA w/ L/R Audio	AVRCxx
3 RCA Video	AVCRxx
3 RCA w/ S/PDIF	AVCRDxx
5 RCA w/ L/R Audio	AVCARxx
3 RCA & S-Video	AVSCRxx
S-Video, 3 RCA w/ L/R Audio	AVSRCxx
3 RCA & 3.5mm	AVC35xx
5-BNC RGBHV	AVBxx

xx=length: 5 ft. (05), 10 ft. (10) or T1 (1" Tail)

X-End™ Coupler (8-Pin)

Description	Catalog Number
4 Inch Tail	SFAVCT
90 Degree	SFAVCN
Straight	SFAVCS

AV Horizontal Run

Description	Catalog Number
Non-Plenum, 8-Pin	VGA6xxBK
Plenum, 8-Pin	VGA6PxxBK

xx=length: 5 ft. (05) to 100 ft. (100)
 Order in multiples of 5 ft.



Hubbell Healthcare Application Guide

Common Areas

Hospitals and healthcare facilities include many common areas like waiting rooms, receptionist areas, corridors and more. These spaces require products able to withstand day-to-day punishment while also ensuring the safety and convenience for all staff and visitors.

Hubbell wiring devices such as switches, receptacles and wireless access boxes are designed to last in healthcare common areas. These products support sustainability and better match a building's lifecycle.

Hubbell Switches and Illuminated Switches



- Heavy duty nylon toggle resists abuse
- Thermoplastic elastomer rocker assures quiet operation and precise timing
- One piece rivetless copper alloy spring contact arm and terminal plate provides long life

Tamper-Resistant Hospital Grade Receptacles



- Deep face design delivers increased impact resistance
- Wire leads for fast installation and no exposed metal
- ID marking surface provides quick sure circuit identification



Ordering Information

Switches

Back and Side Wired
120-277V AC

Rating	Description		HBL® Extra Heavy Duty	Style Line® Decorator
15A	Nylon toggle	Single	HBL1201x	DS115x
		3-Way	HBL1203x	DS315x
		Lighted, nylon toggle*	Single 3-Way	HBL1201xx
20A	Nylon toggle	Single	HBL1221x	DS120x
		3-Way	HBL1223x	DS320x
		Lighted nylon toggle*	Single 3-Way	HBL1221xx
			HBL1221xx	DS320xx

x=toggle/rocker color: I (Ivory), R (Red) or (W) White
xx= lighted toggle color: IL (Ivory), ILC (Clear - HBL only) or ILW (White - Style Line only)
* light on w/ load off



Wireless Access Point Ceiling Box

Description	Catalog No.
Universal WAP Enclosure	WBC1
CISCO Aironet 1200 Series	WBC12
WBC1 uses key no. 2233	
WBC12 uses key no. C346A	

Tamper-Resistant Receptacles

NEMA	Rating	Color	Duplex
15A 125V	125V	Ivory	HBL8200SGIA
		Red	HBL8200SGRA
		White	HBL8200SGWA
20A 125V	125V	Ivory	HBL8300SGIA
		Red	HBL8300SGRA
		White	HBL8300SGWA



Wireless Access Point Wall Box

Description	Catalog No.
Wall Box; Office White	WBW1OW
Wall Box; Black	WBW1BK
Spare Wall Box Lock Key	KEY333
WBW1OW and WBW1BK uses key no. 333	



Tamper-Resistant

The NEC® Article 517-18 requires the use of tamper-resistant receptacles in common areas where children are present, as well as all pediatric areas. Hubbell offers the industry's best-in-class hospital grade tamper-resistant receptacle along with a line of GFCI and specification grade devices that include tamper resistant shutters designed for common areas. Hubbell tamper-resistant receptacles restrict access of single-pronged items like paper clips, pens or keys.

TIA Healthcare Standard TIA-1179 (Proposed)

Area: Diagnostic and Treatment

Communication recommendations for outlet densities

Area	Workstation	LAN Connections
Family Lounge	Low Station	2 – 6 in each WA
Waiting Room	Low Station	2 – 6 in each WA
Consultation	Low Station	2 – 6 in each WA



Hubbell Healthcare Application Guide

Administration

From billing and reception to program coordination and human resources, a healthcare facility is also a business and includes many administrative areas that do not require Hospital Grade receptacles.

Fortunately, Hubbell is also a leading manufacturer of high performance commercial grade devices and delivery systems. Our SystemOne floor boxes and fire-rated poke-throughs provide cable management and flexibility to deliver the right mix of power, data and AV connections to the point of use.



Modularity and Aesthetics

SystemOne is a unique, in-floor delivery system that can be installed in either floor boxes or fire-rated poke-throughs. The system uses a modular approach with over twenty subplates that allow various voice, data and AV connector configurations to fit into each. They can be customized to meet virtually every power and communications application and are easily replaced to accommodate future technology expansion.

TIA Healthcare Standard TIA-1179 (Proposed)

Area: **Operations**

Communication recommendations for outlet densities

Area	Workstation	LAN Connections
Administration	Medium Station	6-14 in each WA

Hubbell SystemOne Floor Boxes and Fire-Rated Poke-Throughs for Concrete Floors



- Multi-service, multimedia and 4x4 applications
- Cast iron, stamped steel and non-metallic floor boxes
- Easily installed and configurable

Hubbell SystemOne Subplates and Covers



- Over twenty applications of subplates to accommodate various power and data configurations
- Can be used with both floor boxes and poke-throughs, maintaining a uniform look throughout the facility
- Durable black, gray, brass, aluminum and ivory powder coat finishes



Ordering Information

Floor Boxes		Fire-Rated Poke-Throughs	
Description		Description	
Cast Iron	S1CFB	(4) 20A; (4) keystone	S1PT4X4xx
Steel	S1SFB	Dual Style Line	S1PTxx
Steel AV	S1SFBVA	Modular AV	S1PT3IMxx
Non-Metallic	S1PFB	Furniture Feed	S1PTFFxx
			—

Covers

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

For color options, replace xx with the following suffixes:



Subplates

Description	Description	Description
Style Line® Decorator/GFCI for power and/or datacom applications	Duplex/Duplex for power and/or datacom applications	Duplex/Style Line® Decorator for power and/or datacom applications
S1SP	S1SPDU	S1SPDU SL
(4) 20A and (4) keystone openings. Power can be wired as single or two circuit and isolated ground.	Single Receptacle Opening for 20A-30A Twist-Lock® recep. (1.56" OD) and (2) Keystone openings	Hubbell AV + Power (1) 20A, 125V receptacle and 3 unit recessed iSTATION™ opening for Data
S1SP4X4	S1SPTL	S1SP3IM

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



Hubbell Healthcare Application Guide

Data Centers

Data centers are the very core of modern healthcare facilities, supporting all the applications needed to maintain daily communications, electronic health records, and critical storage and transmission of medical information. Data centers also must support all satellite operations within the healthcare network. Healthcare facilities need data center solution that can address both power and data while supporting sustainability through energy savings, space efficiency, reliability, and uptime.

Hubbell offers a complete solution for datacenter power and datacom. From it's network cabinets, data racks and patch cords to it's broad offering of power connections, Hubbell has the complete solution.

Data Racks and Patch Cords



- Cabinets, racks and cable management for efficient cooling and use of space
- Optical fiber and copper connections, assemblies, and patch panels
- Hubbell BIDnet™ pre-terminated copper trunk assemblies are factory tested and terminated for maximum performance and reduced installation time

H2 Series Network Cabinets



- Large open base for cable entry and exit
- Perforated front and rear doors provide enhanced airflow, minimizing power consumption
- 180 degree door swing provides complete equipment access



Critical Power

Providing clean uninterrupted primary and backup power in the data center is mission critical to ensuring that all network applications remain running. In the data center, Hubbell's Twist-Lock® Power Devices, IEC Pin and Sleeve connections and customized power distribution products prevent unintentional disconnects. Hubbell's iFRAME® cabinets and NEXTFRAME® cable management systems provide for maximum airflow and space utilization supporting efficiency and sustainability in the datacenter.

Ordering Information



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 7 3/4"

BIDnet™

All BIDnet pre-terminated cable assemblies are made-to-order items. Please call out inside sales team at (800) 626-0005 for lead-time and availability



Integrated Solutions

- NEXTFRAME® 3" and 6" Racks
- NEXTFRAME® Ladder Rack System
- Velcro One-Wrap Ties
- Hubbell Grounding and Bonding Solutions
- Vertical and Horizontal Power Strips

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



Hubbell Healthcare Application Guide

Laboratories



Medical labs require an array of power, data and AV configurations and the means to deliver connection points precisely where needed. They can also be exposed to corrosive chemicals and wash downs. In addition, labs typically undergo reconfiguration to accommodate changing medical needs, testing and new equipment.

Hubbell's complete line of metal and non-metallic raceways are optimal for delivering power and data to the point of use in medical laboratories. In addition to field installed raceway systems, Hubbell also offers factory pre-wired raceways which are pallet delivered right to the jobsite, labeled by room, floor area and/or building and ready to unpack and install.

Hubbell Aluminum Pre-Wired Raceway

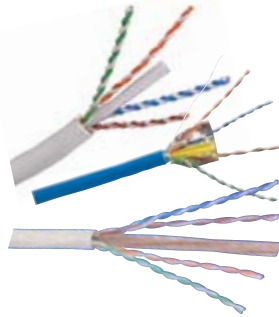


- Save time and money, completing the job quicker and on schedule with Hubbell pre-wired raceway
- Resists oxidation, corrosion and fading
- Available in single, dual and three channel with a wide selection of fittings and boxes

Ultimate Flexibility

Hubbell raceway accommodates the changing needs of research facilities, medical test labs and pharmacies. Raceway offers the ability to provide standard convenience receptacles and datacomm connections, as well as serve the power requirements of larger equipment. Receptacles or datacomm ports can also be easily added where needed.

NEXTSPEED® UTP and FTP Cable



- Specifically designed to operate as a high-performance balanced solution
- Supports the latest ratified industry standards for component compliance
- Typical round design allows for ease of installation

TIA Healthcare Standard TIA-1179 (Proposed)

Area: **Diagnostic and Treatment**

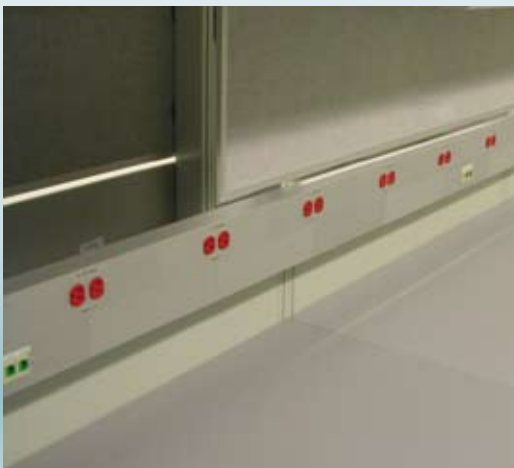
Communication recommendations for outlet densities

Area	Workstation	LAN Connections
Laboratory	High Station	>14 in each WA

Ordering Information

	HBLALU3800	HBLALU4800	HBLALU5000	HBLALU7620
Aluminum Raceway				
Description	HBLALU3800	HBLALU4800	HBLALU5000	HBLALU7620
Base 10ft	HBLALU3800B10	HBLALU4800B10	HBLALU5000B10	HBLALU7620B10
5 ft. cover 1 channel	HBLALUC5	HBLALUC5	HBLALUC57	HBLALUC57
5 ft. cover 2 channel	—	—	HBLALU2C57	HBLALU2C57
Covers				
Duplex	HBLALUDR	HBLALUDR	HBLALU57DR	HBLALU57DR
Rectangular	HBLALUG	HBLALUG	HBLALU57G	HBLALU57G
Fittings				
Internal Elbow	HBLALU3817	HBLALU4817	HBLALU5017	HBLALU7617
Tee	HBLALU3815	HBLALU4815	HBLALU5015	HBLALU7615

For full offering of Raceways and fittings, please visit our online catalog at hubbell-wiring.com.



NEXTSPEED® UTP and FTP Cable

Description	Plenum Spool	Plenum REELEX*	Riser Spool	Riser REELEX*
UTP Cable, Cat. 6A, 4-Pair*	C6ASPxx	C6ASRxx	C6ASRxx	—
10GbE FTP Cable, 4-Pair, 1000' length*	C6FTPSPx	C6FTPSRxx	C6FTPSRxx	—
UTP Cable, Cat. 6 Enhanced, 4-Pair*	C6ESPxx	C6ESRxx	C6ESRxx	—
UTP Cable, Cat. 6, 4-Pair*	C6SPxx	C6RPxx	C6SRxx	C6RRxx
Link 6 UTP Cable	—	C6RPEXX	—	C6RRExx
Category 5E UTP Cable, 4-Pair	C5ESPxx	C5EPRPxx	C5EPSRxx	C5EPRRxx
UTP Cable, Category 5e, 4-Pair	C5ESPxx	C5ERPxx	C5ESRxx	C5ERRxx

xx= color: B (blue), GY (Gray), W (White) and Y (Yellow).

x= color: B (blue), GY (Gray) and W (White)

* **10G**



Hubbell Healthcare Application Guide

Kitchen and Food Service

Hospital, rehabilitation, long term care and hospice facilities include kitchens and food service areas to feed patients, staff and visitors. These food preparation spaces have a wide variety of power requirements. They require modularity to move in various types of appliances as meals and menus change. Hygiene is also a critical component of food preparation areas. Equipment and appliances often need to be disconnected and moved for cleaning. With so many meals to prepare, package and distribute throughout a facility, power connections need to be easy to use, safe and durable.

Hubbell offers an array of water-tight devices and data connections that meet the durability and safety requirements that are needed in healthcare kitchens and food service areas.

Watertight Safety-Shroud® Twist-Lock®



- Maintains UL Type 4X watertight seal when in use and when disconnected
- Recessed blades provide protection against bending and breaking
- Neoprene sealing gland and thermoplastic guard assure sealing when fully connected

Watertight Twist-Lock®



- Double insulated elastomeric cover and thermoplastic body for extra safety and water resistance
- Easy-clean body styling
- Closure cap seals out water and dirt when not in use



Watertight Safety

Hubbell offers a variety of watertight electrical connections. Hubbell's Watertight Safety-Shroud® Twist-Lock® devices are another example of Hubbell innovation making devices better. The safety shroud prevents unintentional contact with plug blades as it is connected. Hubbell's pin and sleeve devices offer durable watertight housings and higher amperage configurations up to 200 amps. Hubbell watertight devices are available in straight blade and Twist-Lock® configurations.

TIA Healthcare Standard TIA-1179 (Proposed)

Area: **Operations**

Communication recommendations for outlet densities

Area	Workstation	LAN Connections
Food Service Cafeteria	Medium Station Low Station	6-14 in each WA 2 -6 in each WA

Ordering Information



NEMA Rating Color Coded by Voltage		Poles/ Wires	Watertight Safety-Shroud® Plug	Watertight Safety-Shroud® Connector	Watertight Plug	Watertight Connector
15A 125V		L5-15	2P/3W	—	—	24W47H 25W47H
15A 277V AC		L7-15	2P/3W	—	—	24W34H 25W34H
20A 125V		L5-20	2P/3W	HBL2311SW	HBL2313SW	26W47H 27W47H
20A 250V		L6-20	2P/3W	HBL2321SW	HBL2323SW	26W48H 27W48H
20A 277V AC		L7-20	2P/3W	HBL2331SW	HBL2333SW	26W49H 27W49H
20A 3Ø 250V		L15-20	3P/4W	HBL2421SW	HBL2423SW	26W75H 27W75H
30A 3Ø 250V AC		L15-30	3P/4W	HBL2721SW	HBL2723SW	28W75H 29W75H
30A 3Ø 480V AC		L16-30	3P/4W	HBL2731SW	HBL2733SW	28W76H 29W76H



Hubbell Healthcare Application Guide

Maintenance and Plant Engineering

Every healthcare facility includes maintenance and plant areas that are similar to an industrial facility. Large equipment like back-up generators, compactors, loading dock equipment, HVAC units and air handlers all need high-capacity, safe and reliable power. Without it, an entire healthcare facility can shut down, compromising patient care.

Hubbell Twist-Lock® plugs, connectors and receptacles and CIRCUIT-LOCK® Manual Motor Disconnects offer a variety of devices to effectively provide dependable and safe power and control motor loads for healthcare maintenance areas.



Motor Load Safety

The 2008 NEC® requires motor controllers on equipment like HVAC units and compactors to have a disconnect within line of sight (Article 430.102) and allows a controller and disconnect to be the same device (Article 430.109) combining both functions in one device.

Hubbell CIRCUIT-LOCK® devices save space, time and money. The dual rating means installing one device instead of two for reduced complexity and faster deployments to get up and running sooner.

TIA Healthcare Standard TIA-1179 (Proposed)

Area: **Facilities**

Communication recommendations for outlet densities

Area	Workstation	LAN Connections
Janitors Closet	Low Station	2-6 in each WA
Electrical Rooms	Low Station	2-6 in each WA
Building Utility Rooms	Low Station	2-6 in each WA
Elevator & Machine	Low Station	2-6 in each WA
Mechanical Rooms	Low Station	2-6 in each WA



Twist-Lock® Plugs, Connectors and Receptacles



- Thermoplastic construction is heat and corrosion resistant for harsh environments
- Ribbed nylon housing provides a secure grip and impact and chemical resistance
- Thermoplastic high heat resistant interior construction is ideal for high-temperature environments

Enclosures and Motor Disconnects



Enclosures

- UL listed as a manual motor controller as well as "suitable as a motor disconnect"
- Type 4X non-metallic enclosure is molded of rugged Valox® to resist abuse, corrosion and enhance safety

Motor Disconnects

- Ensures reliable operation and maximum safety

Ordering Information

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

Manual Motor Controller

Description	Double Pole	Three Pole
30A 600V AC motor controller	HBL7832D	HBL7810D
In Type 1 enclosure; non-metallic cover	HBL1392D	HBL1389D
In metal Type 1 enclosure	HBL1372D	HBL1379D
In NEMA 3R non-metallic enclosure	HBL13R22D HBL13R23D	
In metal Type 3R enclosure	HBL13R92D	HBL13R89D
In NEMA 3R flip lid enclosure	HBL13R12D	HBL13R13D
60A 600V AC motor controller	HBL7862D	HBL7863D
In Type 3R enclosure	—	HBL16R93D

Unfused Disconnect Switches

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

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

NEC® is a registered trademark of the National Fire Protection Association (NFPA). Valox® is a registered trademark of SABIC Innovative Plastics acquired from GE.



Hubbell Healthcare Application Guide

Outdoor Areas

From air handling equipment to ambulance bays, healthcare facilities have multiple outdoor areas that require power and cable protection. These spaces must maintain a high level of safety for patients, staff and visitors entering and exiting a healthcare facility.

Hubbell mechanical interlock devices provide the safety method for connecting and disconnecting power and AccessTrak® ramping systems cover cables.

Mechanical Interlocks



- Incorporates a disconnect switch and receptacle in one compact economical unit
- Patented Plug-Check™ eliminates mating or breaking the circuit under load for maximum safety
- Non-metallic Valox® housing meets UL50 Type 4X, 12X, and IP67 for harsh environments

Hose and Cable Protection



- AccessTrak®: expanable five channel system is a modular cable protection for compliance with ADA accessibility guidelines
- TredTrak®: five channel system designed to support pedestrian and light vehicle traffic
- TrukTrak®: two, three and five channel system designed to support heavy trucks and fork lifts



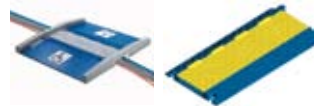
Disaster Preparedness Areas

In recent years, disaster preparedness areas have expanded from coping with natural disasters to accidents involving hazardous materials and outside decontamination. Many healthcare facilities have developed systems and protocols that enable decontamination of people outside of the building, including outdoor decontamination showers. All of these outdoor areas must be safe and any outdoor equipment must have power that is both reliable and ready in the event of a disaster.

Ordering Information

IEC Mechanical Interlocks

Rating by Voltage	Color Coded	Poles/Wires	Mechanical Interlock	Mating Plug
20A 120/240V		3P/4W	HBL420MI12W	HBL420P12W
20A 3Ø 480V		3P/4W	HBL420MI7W	HBL420P7W
30A 120/240V		3P/4W	HBL430MI12W	HBL430P12W
30A 3Ø 480V		3P/4W	HBL430MI7W	HBL430P7W
30A 3Ø 600V		3P/4W	HBL430MI5W	HBL430P5W
60A 120/240V		3P/4W	HBL460MI12W	HBL460P12W
60A 3Ø 480V		3P/4W	HBL460MI7W	HBL460P7W
60A 3Ø 600V		3P/4W	HBL460MI5W	HBL460P5W
100A 120/240V		3P/4W	HBL4100MI12W	HBL4100P12W
100A 3Ø 480V		3P/4W	HBL4100MI7W	HBL4100P7W
100A 3Ø 600V		3P/4W	HBL4100MI5W	HBL4100P5W



Hose and Cable Protection Systems

Description	Catalog Number
TrukTrak® kit	HBLTT5B
TredTrak® kit	HBLTRED5B
AccessTrak® kit	HBLAT5KITA

Outdoor Loose Tube Fiber Cable

Hubbell's OptiChannel® HFC3 Series Outdoor Loose Tube Fiber Cable provides a rugged and versatile high bandwidth optical cabling solution, with easy field termination and compact water resistant design for space-saving installations.



HUBBELL® HEALTHCARE Application Guide

Hubbell Supports Sustainable Building

All around the globe, there is a powerful shift towards “sustainable” thinking. Now increased interest in energy efficiency and waste reduction has put sustainable building design at the very forefront of the industrial, commercial and residential construction industries.

As a leader in the industry, Hubbell Wiring Systems recognizes its role and responsibility in safeguarding the environment. Through its GreenWise™ Sustainability Initiative, Hubbell designs and develops innovative products that optimize sustainable building design by saving energy, supporting space efficiency and reducing waste. Hubbell Wiring Systems is committed to maintaining environmental stewardship in our own manufacturing and corporate facilities through restricting the use of hazardous materials, implementing comprehensive recycling programs and improving energy efficiency.

Website Support

The Hubbell Wiring Systems website features a landing page dedicated to the GreenWise™ Initiative. Here you can find quick links to Hubbell's sustainable building products, resources and councils, financial incentives per state and support literature.



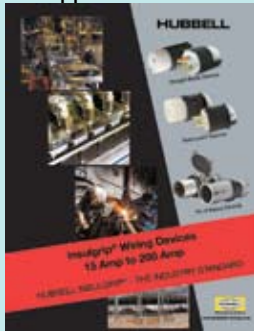
Available Literature

Hubbell offers an extensive literature library for product support. Downloadable PDFs are available on line.

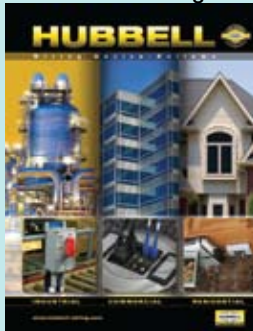
H-MOSS® Sensors
Application Guide



Insulgrip® Wiring Devices
Application Guide



Hubbell Wiring Device-
Kellems Catalog



Hubbell Premise Wiring
Catalog



HUBBELL®
Wiring Systems

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



Hubbell Wiring Device-Kellems
Hubbell Incorporated (Delaware)
40 Waterview Drive, Shelton, CT 06484
Phone (800) 288-6000 • FAX (800) 255-1031

Hubbell Premise Wiring
Hubbell Incorporated (Delaware)
14 Lord's Hill Road, Stonington, CT 06378-0901
Phone (800) 626-0005 • FAX (860) 535-8328