



# HARSH ENVIRONMENTS

## COMPLETE COMMUNICATION SOLUTION FOR HARSH ENVIRONMENTS.

HUBBELL'S HI-IMPACT SYSTEM IS MORE THAN JUST A CONNECTION. IT IS A COMPLETE END-TO-END COMMUNICATIONS SOLUTION DESIGNED TO SOLVE PROBLEMS IN THE MOST PUNISHING ENVIRONMENTS.



Connectors



Patch Cords



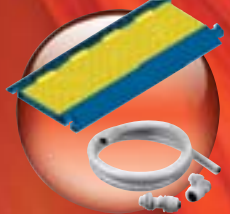
Plates



Boxes



Cabinets



Delivery

HI-IMPACT • ENVIRONMENTS • MULTIMEDIA CONNECTORS • PATCH CORDS • WEATHERPROOF  
 COVERS • SURFACE MOUNT BOXES • CORD CONNECTORS • STRAIN RELIEF GRIPS • IP67 • HARSH ENVIRONMENTS  
 • PROTECTED CONNECTIONS • NON-METALLIC CONDUIT • TRANSMISSION PERFORMANCE • FIELD TERMINATION  
 CORROSION RESISTANT • RUGGED ENVIRONMENTS • THERMOPLASTIC • STAINLESS STEEL • INLINE COUPLERS  
 UV-RESISTANT • DIN RAIL UTILITY BOX • REMOTE EQUIPMENT CABINET • CATEGORY 6 • NON-COMBUSTIBLE  
 CONDUCTIVE • CEMENT-BASED • QUICK CUTTING • POLYURETHANE • HIGH-DENSITY • COMMERCIAL  
 RATED • NEMA 4/12/13 • ETHERNET • AUTOMATION • REINFORCED FIBERGLASS

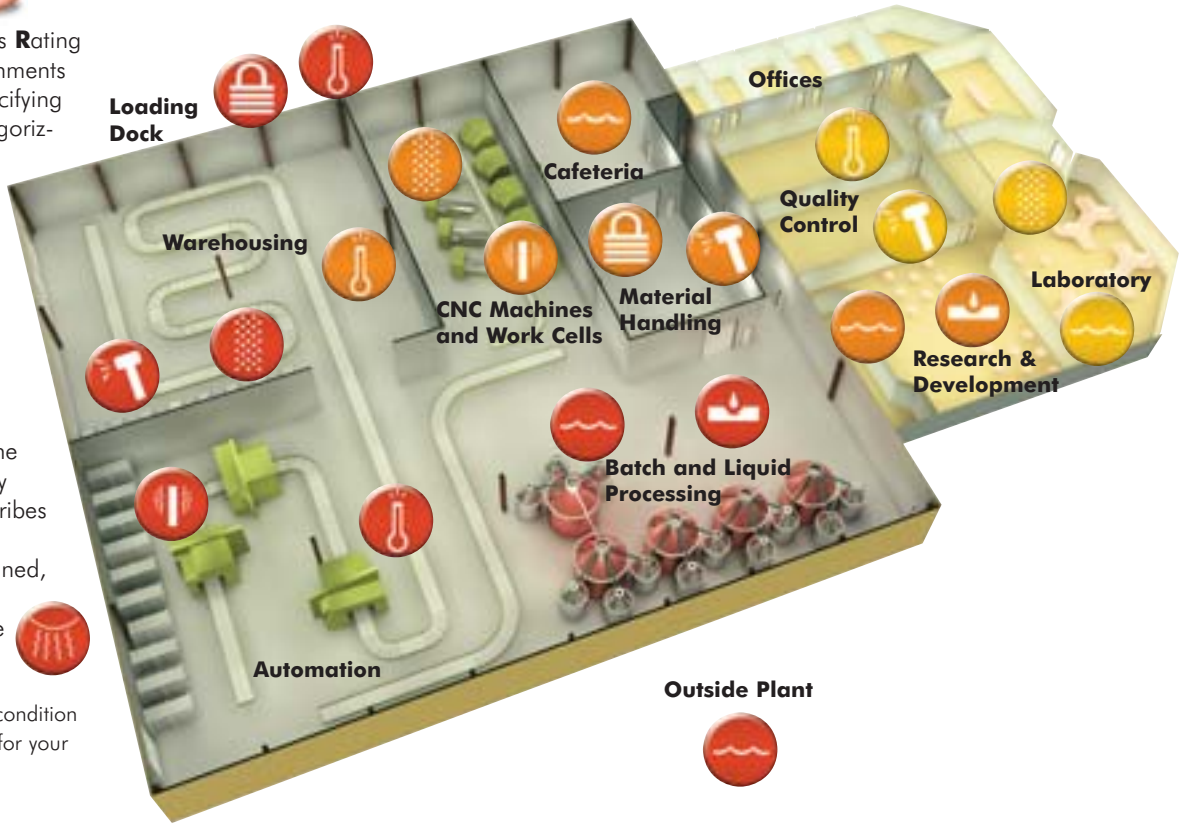
## HI-IMPACT CONTENTS






























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# HARSH- A Comprehensive Rating System.

The **H**ubbell **A**pplications **R**ating **S**ystem for **H**arsh **E**nvironments (HARSH-**e**) simplifies specifying the right product by categorizing environmental conditions into three classes – severe, harsh and tough. When determining what product set to specify, define each application, the standards that need to be addressed and the environmental condition, which it resides in. Use the HARSH-**e** table to identify the e-level that best describes your specific application. Once the level is determined, use the e-icons to assemble the appropriate product solution for that application. NOTE: The most severe environmental condition dictates the HARSH-**e** level for your application.



## HARSH- Hubbell Application Rating System for Harsh Environments

	 <b>3</b> Application Severe	 <b>2</b> Application Harsh	 <b>1</b> Application Tough
<b>Dust</b>	 Enclosures: <b>NEMA 4X</b> Connectors: <b>IP67</b> and <b>IP66</b> Totally protected against dust (Dust-tight)	 Enclosures: <b>NEMA 4/12/13</b> Connectors: <b>IP67</b> and <b>IP66</b> Protected against dust, Objects greater than 1 mm	 Enclosures: <b>NEMA 3R</b> Connectors: <b>IP43</b> Objects greater than 1 mm i.e., tools, wires, small wires
<b>Water</b>	 Enclosures: <b>NEMA 4X</b> Connectors: <b>IP67</b> and <b>IP66</b> Immersion and strong pressure jets	 Enclosures: <b>NEMA 4/12/13</b> Connectors: <b>IP67</b> and <b>IP66</b> Protected against strong and low pressure jets	 Enclosures: <b>NEMA 3R</b> Connectors: <b>IP43</b> Protected against sprays of water to 60° from vertical
<b>Corrosion</b>	 Enclosures: <b>NEMA 4X</b> Stainless Steel: Dust, water and corrosive liquids Connectors: PBT Common oils, chemicals and cleaning agents	 Enclosures: <b>NEMA 4/12/13</b> Ice, dust, water, non-corrosive liquids Connectors: PBT Common oils	 Enclosures: <b>NEMA 3R</b> Falling rain, sleet Connectors: N/A
<b>Impact</b>	 Enclosures: 14 ga., 304 SS Connector Housing: PBT	 Enclosures: 14 ga., Steel Connector Housing: PBT	 Enclosures: 14 ga., Steel Connectors: Thermoplastic
<b>Tamper</b>	 Enclosures: Protected, secured and locked	 Enclosures: Protected, and optional lock	 Enclosures: Protected, but not secured
<b>Temperature</b>	 TIA/EIA-568-B.2 TIA/TR 42.9 pending	 TIA/EIA-568-B.2	 TIA/EIA-568-B.2
<b>Vibration</b>	 TIA/TR 42.9 10-500Hz 5g Acceleration	 TIA/TR 42.9 10-500Hz 2g Acceleration	 TIA/TR 42.9 10-500Hz 0.7g Acceleration
<b>Ultra-Violet</b>	 Protected	 Protected	 Not Protected



### 3 Severe Environments

HARSH-e3 applications are punishing environments where extreme temperatures, EMI, vibration and exposure to corrosive materials may be present.

#### Typical Severe Environment Applications

- **Food Processing**
- **Manufacturing**  
Automation  
Automotive  
Finishing and Plating  
Foundries  
Molding  
Paper Mills  
Process & Control  
Robotics Welding  
Stamping  
Tool & Die
- **Marinas**
- **Pharmaceutical**
- **Utility**  
Electric Utilities  
Oil & Mining  
Refinement & Waste  
Treatment Facilities

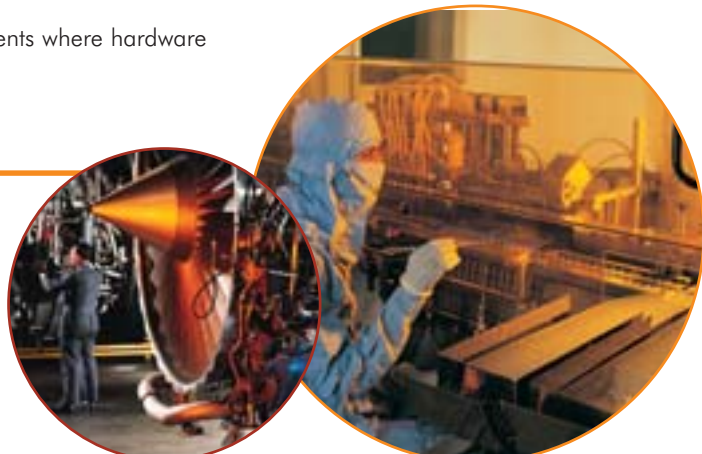


### 2 Harsh Environments

HARSH-e2 applications are harsh environments where hardware is exposed to regular abuse.

#### Typical Harsh Environment Applications

- **Automated Tellers Machines**
- **Billboards and Display**
- **Food**  
Commercial Food  
Fast Food  
Restaurants
- **Laboratories**
- **Manufacturing**  
Automation  
Material Handling  
Warehouses
- **Medical**  
Mobile Med Units
- **Pharmaceutical**
- **Retail**
- **Transportation**  
Airports  
Bus Stations  
Train Stations  
Subways
- **Zoos**



### 1 Tough Environments

HARSH-e1 applications are more demanding than typical commercial environments. Hardware is exposed to occasional rough use.

#### Typical Tough Environment Applications

- **Hospitality and Entertainment**  
Aquariums  
Amusement and Family Entertainment  
Casinos  
Convention Centers  
Hotels  
Resorts  
Stadiums  
Theme Parks
- **Educational**  
K-12  
University
- **Grocery/Deli**
- **Laboratories**
- **Medical**





HI6

**Specifications**

- ◆ Environmental
  - Ingress Protection: IP67 and IP66 (dust/water).
  - Corrosion: Resistant to most common chemicals, oils and cleaning agents.
  - HI-IMPACT Housing: UV resistant.
  - HI-IMPACT Housing Temperature Range: TIA/EIA-568-B.2 -25°C to 70°C
- ◆ Mechanical
  - Vibration
    - Frequency Range: 10-500Hz.
    - Acceleration: 5g (operational).
  - Mating Cycles: 750 minimum.
  - UL 1863 compliant.
- ◆ Material
  - HI-IMPACT Housing: Valox®, UL 94V-0.
  - Nose Contacts: Beryllium Copper with a precious metal plating over Nickel under plating.
  - F-Connector: brass, Gold-plated 2μ".
- ◆ Electrical
  - ANSI/TIA/EIA-568-B.2-1 (Cat 6 and 5e).
  - Supports TIA-1005 Industrial Telecommunications Infrastructure.
  - IEEE 802.3 for DTE power.
  - F-Connector Performance: 1500 MHz Impedance: 75Ω.



- Standard Hubbell Keystone opening provides a migration path to upgrade in the future.
- Standard 3/4" conduit knockout simplifies installation.
- Resistant to UV, common chemicals, cleaning agents and petroleum.

**Features/Benefits**

- IP67 and IP66 rated for dust and liquids.
- IEEE 802.3 PoE/PoE+ support.
- Third-Party verified to Category 6 and Category 5e.
- Durable, rugged construction for the most punishing environments.
- Vibration TIA 568-B.2 transmission integrity.
- User-Friendly Quick Connect positive indication when fully engaged.
- Valox® construction: resistant to temperature extremes, common chemicals and impact.

**HI-IMPACT Copper Connectors**



HI6



HI5E



HI5EC



HI5



HI6

Delivery: 1 housing, 1 jack (see below), 1 flat bulkhead gasket, and 1 retaining nut.

**HI-IMPACT Category 6 Connector (UTP)**

The HI6's unmatched transmission performance is the perfect solution for bandwidth intensive applications, convergence and large file transferring.

Catalog No. **HI6**

**HI-IMPACT Category 5e Connector**

The HI5E is the ideal solution for convergence and PoE applications such as VoIP, video IP, wireless access points, vision systems and automation sensors.

Catalog No. **HI5E**

**HI-IMPACT Inline Coupler, Category 5e**

The HI coupler allows the user a fast and easy way to add a connection to a cabinet, surface housing or panel and connect to a device in a protected environment without punching down. Use a Hubbell category rated 5e/6 patch cord to connect in the protected environment to the HI coupler to the device.

Catalog No. **HI5EC** Category 5e

**HI-IMPACT Shielded, Category 5e/6 Connectors**

The HIS shielded jacks deliver protection from interference caused by EMI providing high performance data transmission from data points without interruption. The quick connect bayonet style housing provides tactile feedback when fully engaged minimizing user error typically found with screw-type mating mechanisms.

Catalog No. **HIS5EA** Category 5e

A-Wiring **HIS5EA**

B-Wiring **HIS5EB**

**HI-IMPACT F-Connector**

HI-IMPACT F-connector's Gold plating provides the perfect connection solution for distributing high quality video signal over horizontal coaxial cable (RG6 and RG59) to and from a device. Whether it's surveillance cameras, video distribution equipment, CCTV or delivering CATV out to marinas, the HIF provides the IP67 protection needed to make the reliable connection.

Catalog No. **HIF**

**Protective Cap**

Catalog No. **HIC**

NOTE: For E<sup>3</sup> environments, please contact Technical Services for specific chemical and environmental applications.



# HUBBELL HiImpact Patch Cords

## HUBBELL Advantage

- Patch cords deliver unmatched transmission performance.
- Different media styles means full application support for all media types: voice-data-video.
- Field-terminable cords and connectors allow installation and configuration on-site to best suit the application.

### Features/Benefits

- Vibration TIA 568-B.2 transmission integrity.
- Maximum cable strain relief resists pull-out.
- User-friendly Quick Connect positive feedback when mated.
- Flexible, durable patch cable resistant to UV, chemicals, cleaning agents and oils.
- O-Ring seal: reliable IP67 and IP66.
- Valox® construction: resistant to temperature extremes and impact.

### Specifications

- ◆ Environmental
  - Ingress Protection: IP67 and IP66 (dust/water).
  - Corrosion: Resistant to most common chemicals, oils and cleaning agents.
  - HI-IMPACT Housing: UV resistant.
  - HI-IMPACT Housing Temperature Range: TIA/EIA-568-B -25°C to 70°C.

## HI-IMPACT Patch Cords

HI-IMPACT patch cord assemblies deliver the superior transmission performance your network needs, packaged in a durable HI-IMPACT shell providing the ultimate protection your harsh environment demands. The HI-IMPACT patch cords are available in a large variety of lengths, styles and media types to accommodate the various applications and combinations requested.



### HI-IMPACT Patch Cord Assembly Chart

	AE	AA	EE
A		A	E
E		A	E

### Patch Cords, Cat 6/5e

	Category 6 Catalog No.	Category 5e Catalog No.	Category 5e Shielded Catalog No.
HI-IMPACT RJ-45 to standard RJ-45	<b>HI6XXAE</b> <sup>1</sup>	<b>HI5XXAE</b> <sup>1</sup>	<b>HI5ESXXAE</b> <sup>1</sup>
HI-IMPACT RJ-45 on both ends	<b>HI6XXEE</b> <sup>1</sup>	<b>HI5XXEE</b> <sup>1</sup>	<b>HI5ESXXEE</b> <sup>1</sup>
Standard RJ-45 on both ends	<b>HI6XXAA</b> <sup>2</sup>	<b>HI5XXAA</b> <sup>2</sup>	<b>HI5ESXXAA</b> <sup>2</sup>

Substitute "XX" with 02, 03, 05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 to indicate length in feet.

### Patch Cords, F-Connector (RG59)

	Catalog No.
F-connector HI-IMPACT F to standard F (RG59)	<b>HIFXXAE</b> <sup>1</sup>
F-connector HI-IMPACT F to HI-IMPACT F (RG59)	<b>HIFXXEE</b> <sup>1</sup>

Substitute "XX" with 02, 03, 05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 to indicate length in feet.

### Field Termination Patch Cord Kits

NOTE: HI-IMPACT plugs, cable and connectors are only rated when used together.

HI-IMPACT Plug Connector	Category 5e	Plug Connector	Catalog No.
UTP	<b>HI5EP</b>	F-connector (RG59)	<b>HIFP</b>
Shielded	<b>HI5ESP</b>		

HI-IMPACT Plug, 25-pk	Category 5e	HI-IMPACT RJ45 Plug	Catalog No.
RJ45 UTP Stranded	<b>HIP5E25</b>	Boot, 25-pk, Black	<b>HICB25BK</b>
Shielded	<b>HIP5ES25</b>		



### Bulk Patch Cable

HI-IMPACT Cable	Category 5e	HI-IMPACT Cable	Catalog No.
100'	<b>HIPC100</b>	RG59 coaxial, 100'	<b>HIF100</b>
Shielded, 100'	<b>HI5E100</b>		

### Coupler Housing (Coming Soon)

HI-IMPACT Coupler Housing - is a perfect solution for temporary and flexible work areas where single port drops are needed. Add any HI-IMPACT connector to support your application.

Delivery: 1 coupler housing with cord connector attached and 1 protective cap.

NOTE: HI-IMPACT connectors not included, see page K6.

Catalog No. **HICH**<sup>1</sup>



NOTE: For E<sup>3</sup> environments, please contact Technical Services for specific chemical and environmental applications.



Compatible with Hubbell Labeling System - see page M8.

# HUBBELL HiImpact Plates, Boxes and Covers

## HI-IMPACT Plates and Device Boxes

### Features/Benefits

- IP55 rated for dust and liquids (HISFXX).
- Pre-punched, keyed opening for HI connector.
- Single and double gang offerings.
- Gasketed to protect from elements.

### Specifications

#### Stainless Steel Plates

- ◆ Thickness: .04" (.9) nominal.
- ◆ Material: smooth metal 302/304; super Stainless Steel 17-19%; chrome, 8% Nickel.
- ◆ Gasket Material: UL closed-cell foam.

#### Thermoplastic Plates

- ◆ Flammability: UL 94-V0, 94-5VA classification.
- ◆ Material: Valox®.
- ◆ Gasket Material: UL closed-cell foam.



HISF11

HI114PY



HBL60CM83

HIFD2L

### Plates

Port Size	Gang	Stainless Steel Catalog No.	Color	Thermoplastic 4-Point FS/FD Catalog No.
1	1	<b>HISF11</b>	Gray	<b>HI114GY</b>
1	1	-	Yellow	<b>HI114PY</b>
2	1	<b>HISF12</b>	Gray	<b>HI24GY</b>
2	1	-	Yellow	<b>HI124PY</b>
2	2	<b>HISF22</b>		
4	2	<b>HISF24</b>		

### Fiberglass Weatherproof Device Box

Hub	Color	Catalog No.
3/4"	Yellow	<b>HBL60CM83</b>

### Cast Aluminum Device Box w/Lugs

Hub	Color	Catalog No.
1/2"	Gray	<b>HIFD1L</b>
3/4"	Gray	<b>HIFD2L</b>

### HI-IMPACT Connector Opening Punch Tool

Catalog No. **HIPT**

NOTE: See page K14 for dimensional drawings.



## HI-IMPACT Weatherproof Covers, Wall Plates, and Device Boxes

### Features/Benefits

- Authentic Bell® brand products.
- Durable, long-lasting design.
- Impact-resistant construction.
- Gasketed and self-closing wall plates.
- Transparent cover provides visibility to connection.
- Provisions for padlock.

### Specifications

- ◆ Moisture resistance: Wet and damp locations Enclosure. NEMA 3R when used with weatherproof box. Dry, indoor locations Enclosure.
- ◆ Thermoplastic Flip-Cover Plates
- ◆ Material, Cover flap: Lexan.
- ◆ Spring screws: Stainless Steel.
- ◆ Flammability: UL 94V-0, 94-5VA.

#### Aluminum Die-Cast Plates

- ◆ Alloy 360 (has less than 0.004 Copper). Rayntite® Covers
- ◆ Material: Impact-resistant Polycarbonate.
- Gaskets: UL recognized closed-cell foam. Neoprene (aging and oil-resistant).
- ◆ Flammability: UL 94V-0, 94-5VA.



HBL5221HI

WPFS26HI

### Weatherproof Plate (Flip Cover), Vertical Mounting, 1-Gang

Cover includes: 1 plate with 4 Stainless Steel mounting screws (#6-32 x 1/2")

Opening	Mounting	Material	Color	Protection Level	Catalog No.
Duplex	Device	Thermoplastic	Gray	IP44 suitable/NEMA3R	<b>HBL5222</b>
Duplex	FS/FD Box (4-point)	Thermoplastic	Gray	IP44 suitable/NEMA3R	<b>HBL5221</b>
Decorator	Device	Die-cast Al.	Gray	IP44 suitable/NEMA3R	<b>WP26HI</b>
Decorator	FS/FD Box (4-point)	Die-cast Al.	Gray	IP44 suitable/NEMA3R	<b>WPFS26HI</b>



RW57500

### Weatherproof Rayntite® Cover, Maximum Protection, In-Use

Cover includes: 1 cover, 1 each plates for duplex and Decorator devices, 4 Stainless Steel mounting screws (#6-32 x 1/2")

Orientation	Gang	Protection Level	Catalog No.
Horizontal/Vertical	Single	NEMA 3R	<b>RW57500</b>
Vertical	Double	NEMA 3R	<b>RW57750</b>

See page B30 for Decorator and Duplex frames.

### Weatherproof Device Box

Knockout	Color	Protection Level	Catalog No.
1/2"	Gray	NEMA 3R	<b>HIWP05GY</b>
3/4"	Gray	NEMA 3R	<b>HIWP75GY</b>



# HUBBELL HiImpact Equipment Cabinets

## HUBBELL Advantage

- Corrosion-resistant NEMA 4X Stainless Steel withstands years of abuse.
- Consolidation point cabinets provide an easy solution to house active equipment in harsh environments.
- When tamper-resistance is needed, an optional lock is available to secure your active equipment.

### Specifications

- ◆ Body and door fabricated from 14 gauge 304 Stainless Steel and 14 gauge 316 Stainless Steel.
- ◆ Plasma-welded, continuous seams.
- ◆ ¼-turn, oil-tight latches on door.
- ◆ Poured-in Polyurethane gasket on door.

### HI-IMPACT RE-BOX® Remote Equipment Cabinet

#### User-Configurable Version

Delivery: 1 enclosure and 1 HI-IMPACT RE-BOX® back panel.


			
Height	24"	24"	24"
Depth	12"	12"	12"
Catalog No.	<b>IR2U3RG</b>	<b>IR2UG</b>	<b>IR2USS</b>
Catalog No.	<b>IR3U3RG</b>	<b>IR3UG</b>	<b>IR3USS</b>
Catalog No.	-	<b>IR4UG</b>	-
Material:	Cold Rolled Steel	Cold Rolled Steel	Stainless Steel
Finish:	Gray, Powder Coat	Gray, Powder Coat	Brushed, Unpainted
NEMA Rating:	3R	4/12/13	4X



IR4UG

#### Pre-Configured Version

Delivery: 1 enclosure; 1 bottom-hinged patch panel bracket, 4U (REK19); and 1 equipment mounting bracket, 5U (REKZ), 1 HI-IMPACT RE-BOX® back panel.

	
Height	36"
Depth	12"
Catalog No.	<b>IR3PG</b>
Catalog No.	<b>IR4PG</b>
Material:	Cold Rolled Steel
Finish:	Gray, Powder Coat
NEMA Rating:	4/12/13

NOTE: Please see page H26 for features and specifications. See page H29 for RE-BOX® accessories.

### HI-IMPACT Consolidation Point Cabinet

Hubbell's HI-IMPACT NEMA 4X and 4/12 consolidation point cabinets are designed for harsh environments where oil, dirt, dust and moisture are present. The HI-IMPACT consolidation point cabinet is a perfect solution to house and secure small switches, wireless access points and cross connect products in harsh environments such as factory floors, convention centers, correctional facilities, and commercial kitchens.

#### Consolidation Point Cabinet

Type	Material/finish	Size	Catalog No.
NEMA 4X	Stainless Steel	12x12x6.91	<b>HICPSS</b> 
NEMA 4/12	Powder-coat, Gray	12x12x6.91	<b>HICP412G</b> 



HICP412G

#### Lock Kit

Use to change lock style to meet specific applications.

Delivery: 2 Assembly locks and keys.

Description	Catalog No.
CH751 keyed lock kit	<b>CKL751</b>



# HUBBELL HiImpact Surface Mount Boxes



HI24XGY Loaded

The HI-IMPACT surface mount boxes provide an easy way to mount and protect connectivity in punishing environments, supporting all HI-IMPACT media types. If your application requires Stainless Steel, NEMA 4/12 or NEMA 4X, in different port configurations, the HI-IMPACT surface mount boxes will suit your environmental needs.

## HUBBELL Advantage

- Corrosion-resistant surface mount boxes withstand years of abuse and wash down.
- Locate surface mount boxes easily with many different options to route and protect cable.
- Deploy Ethernet out to remote devices with the proper environmental protection needed.



HI24XGY



HI1CBSS



HI2CB2G

Ports	Catalog No.	Catalog No.	Catalog No.
1	<b>HI14XGY</b>	<b>HI1CBSS</b>	<b>HI1CB2G</b>
2	<b>HI24XGY</b>	<b>HI2CBSS</b>	<b>HI2CB2G</b>
4	<b>HI44XGY</b>	-	-
6	<b>HI64XGY</b>	-	-
Material:	Thermoplastic	Stainless Steel	Steel
Finish:	Gray		Gray (Powder-coated)
NEMA Rating	NEMA 4X Box	NEMA 4X Box	NEMA 4/12 Box

# HUBBELL HiImpact DIN Rail Utility Box



DRUBTVSS15

Hubbell's HI-IMPACT DIN Rail Utility Boxes offer a labor saving way to provide utility power and/or communications to any control cabinet. Installing the DIN Rail Utility Box is as easy as snapping the box vertically onto a 35mm DIN Rail and connecting the line, neutral and ground wires to the terminal block for power or punching down XCELERATOR™ jacks for communications.

### Features/Benefits

- Labor savings.
- DIN rail compatible.
- Easy delivery of power or data.
- Quick and easy installation.
- Surge protected.

### Specifications

- ◆ Material - ABS.
- ◆ Surge Receptacle (HBL526GYSA).
- ◆ Amperage: 15A.
- ◆ Voltage: 125V.
- ◆ Material
  - Top and base: Nylon.
  - Mounting strap: 0.050" (1.3) Steel, Zinc-coated.
  - Clamping plate: 0.031" (.8) Brass.
  - Terminal screw: Brass #8-32.
  - Grounding screw: Steel (green).
  - Auto ground clip: Stainless Steel.
  - Mounting screws: Steel, Zinc-plated.
  - Alarm muting screw: Nylon.
- ◆ LED color: Red.
- ◆ Frequency: 60Hz.
- ◆ Voltage range: 120V AC +10%-15%.
- ◆ Operating Temperature Range: TIA/EIA-568-B -25°C to 70°C.



HIDRUBCKIT

Description	Catalog No.
Electrical DIN rail utility box kit with 15A TVSS surge-protected receptacle	<b>DRUBTVSS15</b>
Communications DIN rail utility box kit (unloaded)	<b>HIDRUBCKIT</b>

See page B30 for Decorator and Duplex frames.

# HUBBELL **HiImpact** POLYTUFF® Non-metallic Conduit

HI-IMPACT LIQUIDTIGHT® is the perfect conduit system to deliver all of your communication needs for all 3 levels of Hubbell's HARSH-E environments.

## HI-IMPACT POLYTUFF® Non-metallic Conduit

### HI-IMPACT POLYTUFF® Non-Metallic Conduit

Size	Color	Description	Length	Catalog No.
1/2"	Gray	Non-Metallic Conduit	100'	<b>G1050</b>
3/4"	Gray	Non-Metallic Conduit	100'	<b>G1075</b>

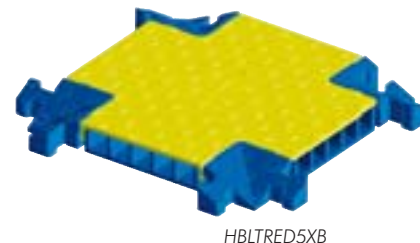
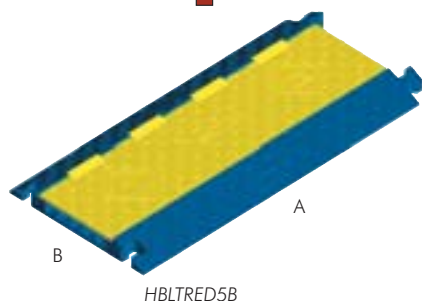


### LIQUIDTIGHT® Non-Metallic Fittings

1/2"	Gray	Straight Male	<b>P050NGYA</b>
3/4"	Gray	Straight Male	<b>P075NGYA</b>
1/2"	Gray	<b>SWIVELLOK®</b> Male	<b>PS0509NGY</b>
3/4"	Gray	<b>SWIVELLOK®</b> Male	<b>PS0759NGY</b>



# HUBBELL **HiImpact** TREDTRAK® and TRUKTRAK®



## HI-IMPACT TREDTRAK® and TRUKTRAK®

### TREDTRAK®

Use for lightweight traffic applications in public, institutional and commercial environments.

Description	A (Length)	B (Width)	Weight lbs. (kg)	Maximum Load lbs. (N) @		Catalog No.
				21°C	48°C	
36" <b>TredTrak®</b>	36" (914.1)	17.5" (445)	18 (18.2)	10,500 (46,700)	6,500 (28,900)	<b>HBLTRED5B</b>
End Caps (pair)	Male 5.5" (120) Female 6.75" (171)	17.5" (445)	2.5 (1.13)	10,500 (46,700)	6,500 (28,900)	<b>HBLTRED5ECB</b>
"X" Fitting	17.5" (445)	19.5" (500)	12 (5.43)	2,900 (12,900)	2,300 (10,230)	<b>HBLTRED5XB</b>
"Y" Fitting	17.5" (445)	19.5" (500)	12 (5.43)	2,900 (12,900)	2,300 (10,230)	<b>HBLTRED5YB</b>

### TRUKTRAK®

Use for heavy duty industrial locations with heavy weight traffic such as trucks and fork lifts.

Description	A (Length)	B (Width)	Weight lbs. (kg)	Maximum Load lbs. (N) @		Catalog No.
				21°C	48°C	
36" <b>TrukTrak®</b>	36" (914.4)	20" (508)	29 (13.2)	20,150 (89,627)	9,200 (40,921)	<b>HBLTT5B</b>
End Caps (pair)	Male 5.25" (183.4) Female 7.5" (114.3)	20" (508)	4.7 (2.1)	20,150 (89,627)	9,200 (40,921)	<b>HBLTT5ECB</b>
45° Left Turn	25" (635)	20" (508)	13 (5.9)	20,150 (89,627)	9,200 (40,921)	<b>HBLTT545LB</b>
45° Right Turn	25" (635)	20" (508)	13 (5.9)	20,150 (89,627)	9,200 (40,921)	<b>HBLTT545RB</b>

# HUBBELL HiImpact Cord Connectors

## HI-IMPACT Cord Connectors

### Features/Benefits

- IP66 rated.
- UL listed to 4, 4X, 12 and Type 13.
- Resistant to common chemicals, cleaning agents and oils.
- Effective pullout protection.

### Specifications

- ◆ Stainless Steel hub size: 1/2".
- ◆ Aluminum hub size: 1/2", 3/4".
- ◆ Nylon standard style hub size: 1/2".
- ◆ Flammability: UL 94-V2 rating.
- ◆ Cord diameter range: 0.25" - 0.38" (6.3- 9.7).
- ◆ Cord connector body style: straight male.
- ◆ Recommended knockout hole size:
  - 1/2"-.86" - .91" (21.8-3.0).
  - 3/4"-1.09" - 1.14" (27.8-29.0).
- ◆ Effective operating temperature: -30°F to +225°F (-34°C to +107°C).



SHC1022SS



SHC1022CR



### Cord Connectors

The N.P.T. hub features an attractive knurled finish which makes them easy to handle and maintain a U.L. listing by hand tightening. The E3 Stainless Steel cord connectors provide superior strength and corrosion resistance for industrial and military applications. They are machined from 300 series Stainless Steel. Hubbell's nylon cord connectors resist most common industrial corrosives and provide highly effective pullout protection in a lightweight design. They are ideal for any application where weight, conductivity or corrosion may be an issue.

Size	Material	Color	Cord O.D. Range	Catalog No.
1/2"	Aluminum	-	0.25" - 0.38" (6.7-9.7)	<b>SHC1022</b>
3/4"	Aluminum	-	0.25" - 0.38" (6.7-9.7)	<b>SHC1032</b>
1/2"	Stainless Steel	-	0.25" - 0.38" (6.7-9.7)	<b>SHC1022SS</b>
1/2"	Nylon	Gray	0.25" - 0.38" (6.7-9.7)	<b>SHC1022CR</b>

### Accessories

Description	Size	Catalog No.
Metal clad sealing O-ring	1/2"	<b>20509001</b>
Metal clad sealing O-ring	3/4"	<b>20509002</b>
Lock nut, non-metallic	1/2"	<b>31622003LPK50</b>
Lock nut, non-metallic	3/4"	<b>31622007LPK50</b>

# HUBBELL HiImpact KELLEMS® Strain Relief Grips



HI-IMPACT KELLEMS® Strain Relief Grips are designed to prevent tension from being transmitted to joints and terminals on electrical cord, cable and conduit. In most applications, a grip for strain relief is stronger than the cable/conduit itself, giving greater security than the use of a standard fitting alone.

### Features/Benefits

- Minimize down time.
- Safer systems.
- LIQUIDTIGHT® fitting.
- Corrosion resistant.

### Specifications

- ◆ Aluminum hub size: 1/2", 3/4".
- ◆ Nylon standard style hub size: 1/2".
- ◆ Flammability: UL 94-V2 rating.
- ◆ Thread type: N.P.T.
- ◆ Grip cord range (diameter): 0.250" - 0.375" (.63- .95) cord.
- ◆ Connector body style: straight male.
- ◆ Recommended knockout hole size:
  - 1/2"-0.86" - 0.91" (21.8-3.0).
  - 3/4"-1.09" - 1.14" (27.8-29.0).
- ◆ Operating temperature: -30°F to +225°F (-34°C to +107°C).

## HI-IMPACT KELLEMS® Strain Relief Grips



CG406NM

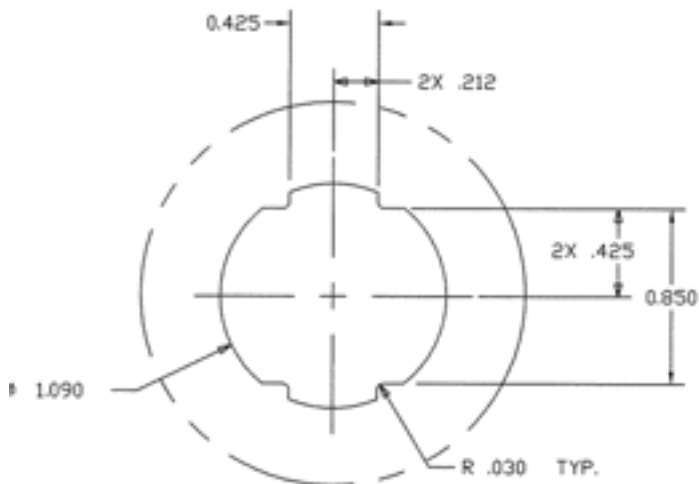


07401006

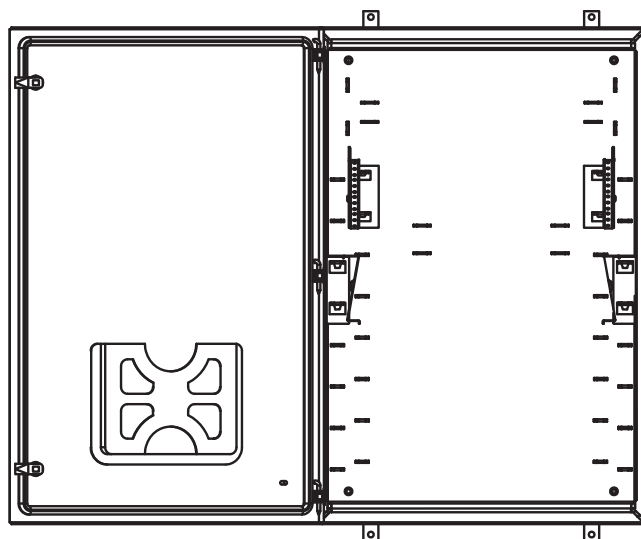
Size	Color	Material	Cord OD Range	Catalog No.
1/2"	-	Aluminum	0.250" - 0.375" (.63- .95)	<b>07401006</b>
3/4"	-	Aluminum	0.250" - .0375" (.63- .95)	<b>07401013</b>
1/2"	Gray	Nylon	0.250" - 0.375" (.63- .95)	<b>CG406NM</b>
1/2"	Black	Nylon	0.250" - 0.375" (.63- .95)	<b>074011332</b>
1/2"	Stainless	Steel	0.187" - 0.250"	<b>074011331</b>
3/8"	-	Nylon	0.250" - 0.375" (.63- .95)	<b>CG305NM</b>

# Dimensions

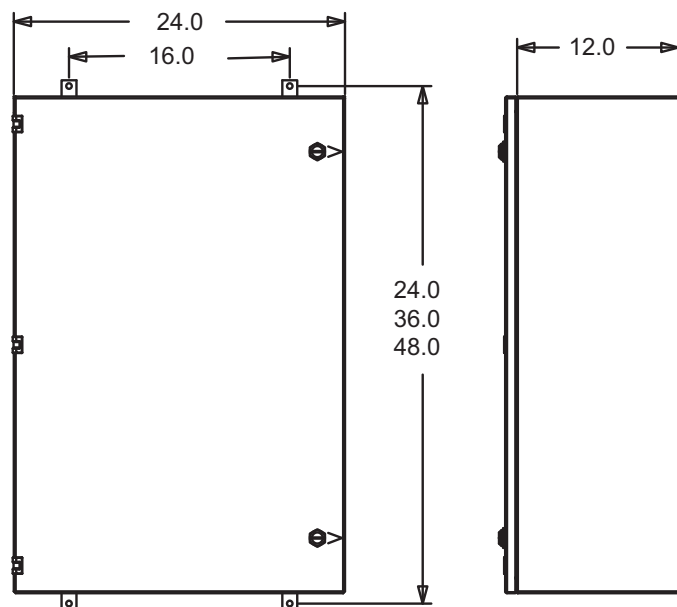
HI-IMPACT Opening (Tool Catalog No. HIPT)



Industrial RE-BOX®



Front View  
(Door Open)



Front View

Side View