



The HubbellSafe Safety Evaluation

Identify and solve potential safety problems with this step-by-step checklist from Hubbell, your electrical experts.

SAFETY FIRST WITH HUBBELL

Identify and Correct Safety Hazards for Reduced Downtime and Expense

Workplace safety has a significant impact on your business. Employee safety and productivity, machine downtime and production throughput are all impacted by the condition of the workplace environment. Hubbell Wiring Systems is committed to helping our customers maintain the safest possible workplace through the proper selection, use and installation of wiring devices.

Potential safety hazards exist in almost every workplace environment—from open office areas and factory floors, to construction sites and retail spaces. That’s why all employers are required to comply with strict safety codes and regulations.

Many businesses today pride themselves on the number of accident-free days, which can be supported through the implementation of formal safety programs that include periodic visual safety evaluations. Conducting a safety evaluation to identify and correct safety hazards now can help avoid accidents later.

We have designed the Hubbell Safety Evaluation to help you increase awareness of safety codes and potentially avoid accidents.

For a variety of applications and environments, the Safety Evaluation poses key inspection questions aimed at reviewing the condition of existing wiring devices to help identify potential safety hazards. Our wide range of products designed for maximum safety and code compliance offers solution options for each safety hazard. We detail the related NEC, NEMA, or OSHA requirement. The Hubbell Safety Evaluation is not all-inclusive, but may help point to trouble areas in the installation of wiring devices.

Hubbell understands the importance of making safety a core value in every business and the cost of not. Upgrading to the latest wiring device technology with Hubbell products can help you maintain workplace safety, comply with codes and regulations, and ultimately reduce risk. This safety evaluation is one element of an overall company safety program.

HUBBELL RECOMMENDS...

- ✓ Always adhere to the manufacturer’s installation instructions when installing and using wiring devices
- ✓ Use a certified, qualified electrician to perform all electrical work
- ✓ Be aware of all related NEC, NEMA and OSHA regulations
- ✓ Always disconnect power and use lock-out/tag-out procedures during inspection and maintenance
- ✓ Conduct periodic inspections and maintenance to ensure personal safety and day-to-day product performance





Problem: Devices burn out from coming in contact with water and debris.

Solution: Safety-Shroud® Twist-Lock® products are UL Type 4X rated for use in harsh environments.

Plugs and Connectors, 15 - 30 Amp

NEC® Information: Refer to Article 110.11 Deteriorating Agent, and Table 110.28 for selection of suitable enclosure type ratings for the specific environmental conditions

- Are there visible cuts and defects on cords? Are flexible cords and cables free of splices or taps?
- Is the cable securely captured by the cord grip?
- Is the cable within the recommended diameter range of the cord grip?
- Does the application require additional strain relief to control stress or arc of bend at the cord grip?
- Are there any visible signs of damage or wear to the devices?
- Are plug blades bent or distorted from being dropped or hit?
- When inserting the plug, does the engagement with the receptacle or connector feel loose?
- Are the devices being used in wet locations, wash down areas or corrosive environments?
- Are closure caps installed on the devices when they are not in use?
- Is accidental contact with plug blades a concern?
- Are clamps or other securing means provided on flexible cords or cables at plugs, receptacles, tools, equipment, etc., and is the cord jacket securely held in place?



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Problem: Machinery or equipment connected with conventional straight blade NEMA devices may become unplugged unintentionally due to strain on the cord or vibration.

Solution: Hubbell Twist-Lock devices prevent nuisance disconnections from occurring that could cause unwanted downtime or a possible injury to personnel.

High Amperage Devices 50 - 200 Amp Plugs and Connectors

NEC® Information: Twist-Lock devices are recommended as an industry best practice to prevent accidental unplugging of equipment, such as Article 513.7 that calls for locking type devices that will not readily disconnect. Twist-Lock devices should also be standards for overhead connections as recommended in Article 525.23(B)

- Are devices not mated securely or do they disconnect unintentionally?
- Is exposure to weather (rain) expected?
- Are all energized parts of electrical circuits and equipment guarded against accidental contact by approved cabinets or enclosures? 1910.303(g)(2)(i)
- Is the correct wire gauge being used for the application or length of run?
- Is exposure to arcing when connecting/disconnecting possible?
- Are installed products rated for make or break under load?
- Has the added safety of nonmetallic devices been considered?
- Are the devices designed to prevent unintentional mis-mating of different ratings?



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Problem: Non-GFCI devices are installed indoors in wet and damp locations.



Solution: GFCI receptacles with Self-Test technology provide continually monitored protection.

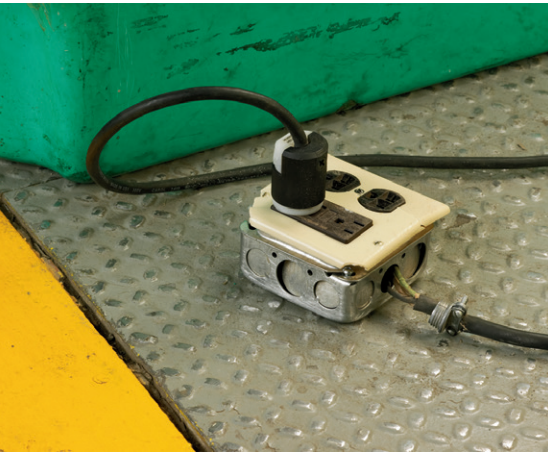
Wet and Damp Locations

NEC® Information: For non-residential installations, all 125V through 250V receptacles rated 150V or less to ground, 50A or less, installed in locations specified in Article 210.8 shall have ground fault circuit interrupter protection for personnel

- Do your requirements include power in a bathroom or sink area (within 6 ft.)?
- Is your application for temporary power in an outdoor construction location?
- Is power required in a garage or service bay?
- Do you have considerations for spa/whirlpool or pool installations?
- Are you providing power in a kitchen area?
- Is this a medical or hospital application?
- Do you have a demanding industrial application?
- Is the application outdoors, including rooftops?
- Do you have a high current application in an Industrial area?
- Will you be using power tools or equipment?
- Does your application include 3 phase power?
- Are there requirements for convenience power in bathrooms, kitchens, roof tops, outdoors, sink areas, wet locations, locker rooms, shower facilities, garages or service bays?



NOTES: _____



Problem: A standard GFCI receptacle installed in a 4" square box for temporary power.

Problem: Portable power tools used on circuits without GFCI protection.

Solution: Portable GFCI products with the required open neutral protection.

Solution: GFCI plugs and line cords have built in protection for portable tools and include the required open neutral protection.

Portable GFCI

OSHA Information: Meets OSHA 29 CFR 1926.404(b)(1)(ii) and 29 CFR 1926.405(a)(2)(ii)(G) requirements for portable power/lighting in confined space.

UL Information: The GFCI standard, UL 943, section 6.7.2.1 requires open neutral protection for portable GFCI. The open neutral protection feature ensures the GFCI trips when a neutral supply wire is broken, and will not allow reset until the wire is fixed.

- Are ground fault circuit interrupters installed on each temporary 15 or 20 ampere, 120 volt AC circuit at locations?
- Are there outlets required for temporary power on construction sites?
- Do you require 3 phase power with GFCI protection?
- In wet or damp locations, are electrical tools and equipment appropriate for the use or location or otherwise protected?
- Is power required in a locker room or shower facility?
- Is the GFCI installed in a readily accessible location?



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Problem: Temporary power distribution systems without required personnel protection.

Solution: Factory defined assemblies that can be easily installed as a cost effective alternative to conventional wiring methods.

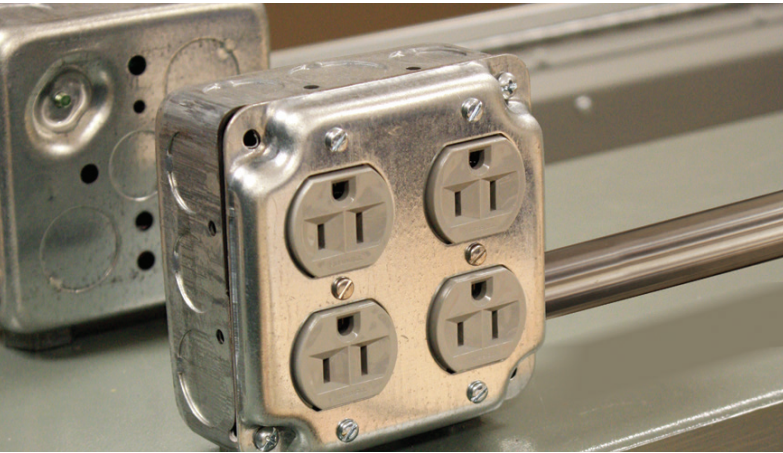
Temporary Power

NEC® Information: Article 590.6 requires GFCI protection for personnel on all temporary receptacles installed at construction sites and receptacles existing or installed as part of the permanent wiring in a building and used for temporary electric power.

- Are all temporary circuits protected by suitable disconnecting means at the junction with permanent wiring?
- Is the work site potentially abusive to equipment?
- Is the entire distribution panel/box suitably rated for outdoor use?
- Are all 125 volt devices adequately protected with ground fault circuit interrupting devices that include open neutral detection?
- Will the application require multiple cables run to the points of use?
- Is there individual overload protection at each connection point?



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Problem: The need to quickly reconfigure work spaces for product change-overs and continuous improvement activities.

Solution: Factory defined assemblies that can be easily installed as a cost-effective alternative to conventional wiring methods.

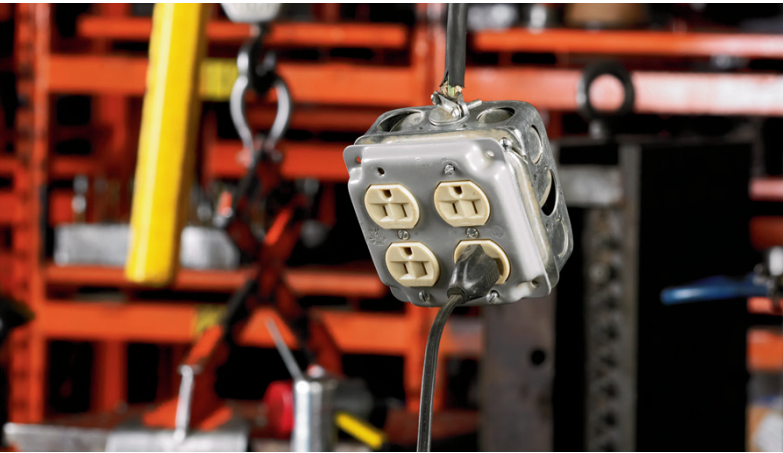
Modular Power

NEC® Information: Article 336.10(7) permits types TC-ER cable when secured at intervals of not more than 6 feet with continuous support.

- How frequently are workbenches and equipment moved?
- Are work cells reconfigured for product change-overs or continuous improvement activities?
- Is electrical maintenance support readily available to facilitate moves, adds and changes?
- Are connections exposed to wet environments?
- Are any of the wiring devices or connections subject to damage?



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Problem: Using a box that is not listed for pendant application. Open knockouts and inadequate strain relief could potentially harm equipment or personnel.

Solution: Portable nonmetallic outlet boxes provide a safe rugged portable enclosure with integral sealed cord connector fittings.

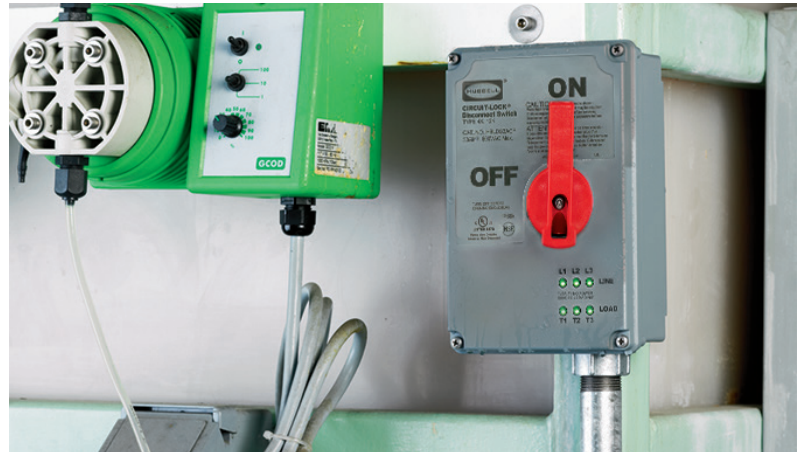
Portable Outlet Box

NEC® Information: Article 110.12 prohibits unused cable openings in metallic boxes.

- Are there extension cords with metallic outlet boxes installed on the ends?
- Are metallic boxes with unused knockouts in use for convenience power drops?



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Problem: Switch controls equipment that is exposed to frequent washdowns and cleaning chemicals.

Solution: Circuit-Lock Switched Enclosure with a UL Type 4X (Washdown, Corrosion Resistant) rating and a lockable handle to meet OSHA Lockout/Tagout regulations.

Disconnect Switches

NEC® Information: Refer to Table 110.28 for selection of suitable enclosure type ratings for the specific environmental conditions and Refer to Article 430.102 (B) for Lock-out, Tag-out requirements

- Are motor controllers being used as motor disconnect switches?
- Are Variable Frequency Drives being used?
- Do the disconnect enclosures have a rating suitable to the environment?
- Are all disconnecting switches and circuit breakers labeled to indicate their use or equipment served?
- Are disconnecting switches for electrical motors in excess of two horsepower, capable of opening the circuit when the motor is in a stalled condition? (Switches must be horsepower rated equal to or in excess of the motor hp rating.)



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Problem: Disconnect switches that have been placed near power feeds may not be close enough to the equipment to comply with line of sight requirements.

Problem: Space available near equipment to comply with line of sight disconnect requirements may not provide enough room to fit along side of the motor controller.

Solution: Install a listed motor disconnect switch between the final motor branch-circuit short-circuit and ground fault protective device and adjacent to the controller.

Solution: Install a motor controller that is additionally listed as “suitable as a motor disconnect” between the final motor branchcircuit protective device and the motor.

Manual Motor Control

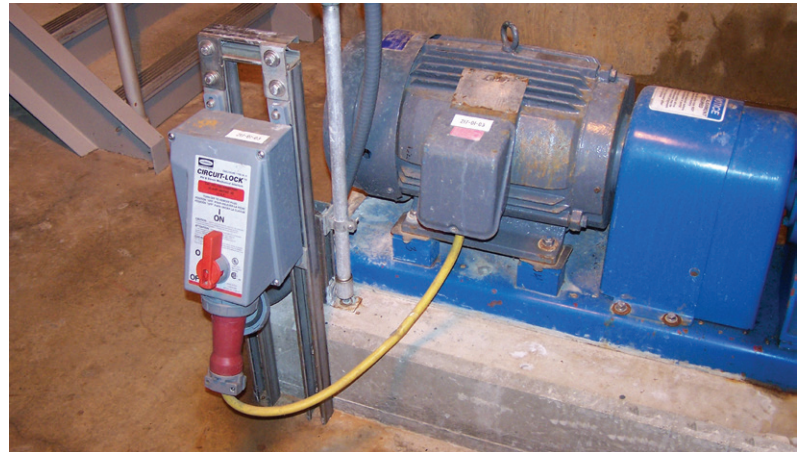
NEC® Information: Article 430.102(A) for circuits under 600 volts requires a disconnecting means be located within sight from the motor location or the driven machinery location (50 feet).

NEC® Information: Article 430.109(A)(6) permits the use of a motor controller that is additionally listed as “suitable as motor disconnect” as the required disconnecting means and may include supplementary fuses



- Is each motor disconnecting switch or circuit breaker located within sight of the motor control device?
- Is each motor located within sight of its controller or the controller disconnecting means capable of being locked in the open position or is a separate disconnecting means installed in the circuit within sight of the motor?
- Is the controller for each motor in excess of two horsepower, rated in horsepower equal to or in excess of the rating of the motor it serves?

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Problem: Potential for dangerous arcing when equipment is unintentionally connected / disconnected under load.

Solution: Circuit-Lock® Switched Mechanical Interlock Enclosure virtually eliminates the possibility of making or breaking the circuit under load or making a casual or “lazy” connection.

Mechanical Interlocks

NEC® Information: Article 430.103 - The disconnecting means shall open all ungrounded conductors and be designed so that no pole can be operated independently.

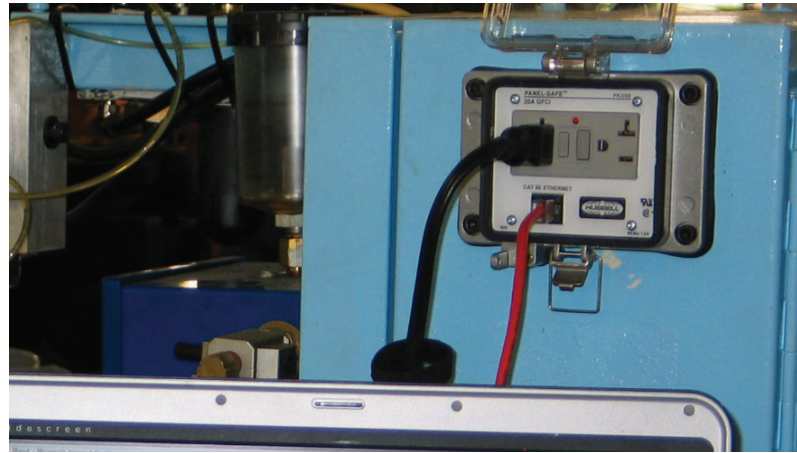
- Are all energized parts of electrical circuits and equipment guarded against accidental contact by approved cabinets or enclosures?
- Are there Arc Flash calculation labels, safe separation distance, identified/installed?
- Is there any physical damage to electrical boxes creating openings into electrical circuit from bent metal?
- Is sufficient access and working space provided and maintained around all electrical equipment to permit ready and safe operations and maintenance? OSHA
- Will personnel make or break equipment connections under load?
- Do your disconnect switches offer built in Lockout/Tagout capability?



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Problem: Access is required to programmable controllers located inside energized cabinets requiring necessary arc flash protection.



Solution: Install an external interface that is isolated from live control cabinet components.

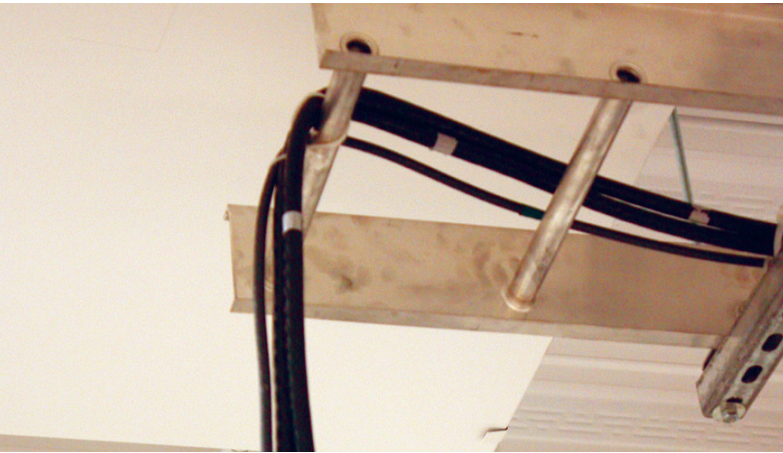
PANEL-SAFE®

NFPA Information: NFPA 79, Electrical Standard for Industrial Machinery, calls for all utility receptacles to be GFCI protected, external utility receptacles must be covered and covers must maintain the rating of the enclosures.

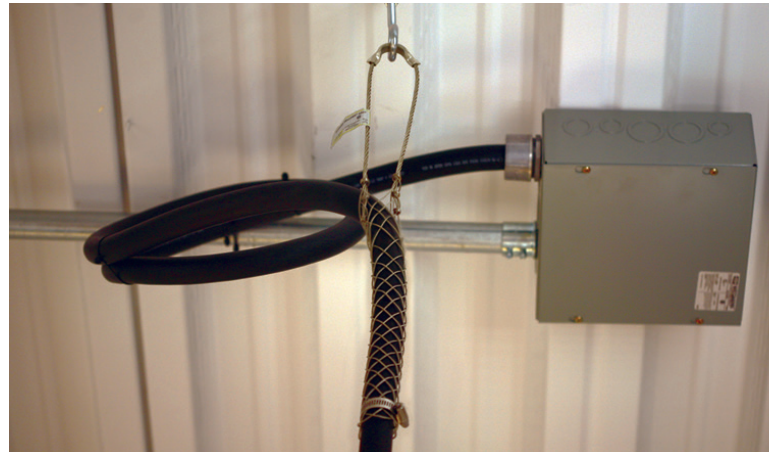
- Is maintenance being performed on active electrical cabinets?
- Is GFCI and over current protection needed at point of use?
- Will the equipment encounter weather or hose down?
- Is “tool entry” or lockout desirable?
- Are Is “finger safe” contacts for wiring desirable?
- Are electrical cabinets left open while energized or when equipment is operating?
- Do you open cabinet enclosures to access data ports from inside?
- Are all panel utility receptacles adequately protected for the environment, such as NEMA 4 or 4X?



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Problem: Cable connections and cord drops can pull out or become damaged from being overstressed by motion or vibration in use.

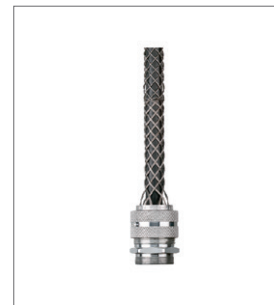


Solution: Kellems® Wire Mesh prevents strain from being transmitted to connection points. This provides greater security than using a fitting alone, making the electrical system safer by preventing cable pull-out and controlling arc-of-bend.

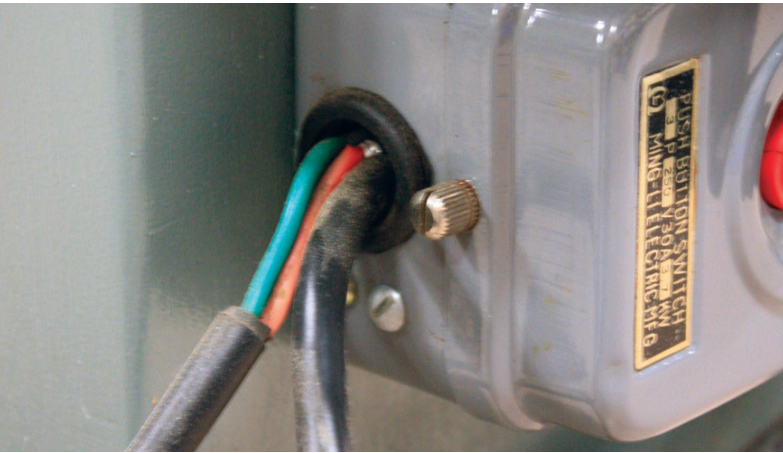
Wire Management

NEC® Information: Article 400.14, Pull at joints and terminations, states flexible cords and cables shall be connected to devices and to fittings so that tension is not transmitted to joints or terminals.

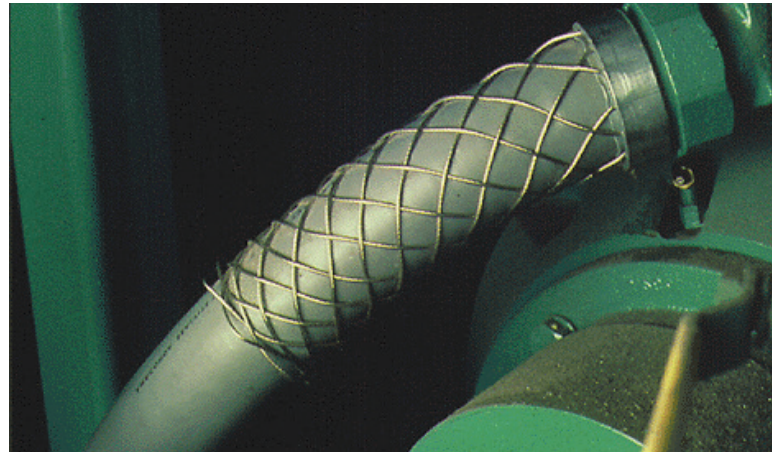
- Do the current cable supports provide a positive action that distributes loads equally over the cable jacket?
- Are cable drops from overhead properly supported over the entire run?
- Will cable drops potentially be subject to pull, vibration or movement?
- Are flexible cords and cables protected where passing through holes in covers, outlet boxes, or similar enclosures?
- Will equipment feed cables be subject to offset strain at the entrance to fittings?
- Is the application in a highly corrosive environment?
- Does the application require a cable strain relief be installed on the middle of the run?



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Problem: Unprotected equipment cables can easily become damaged during use if not properly protected.



Solution: PolyTuff® nonmetallic Liquidtight conduit protects electrical wiring improving safety for both people and equipment by preventing mechanical and moisture damage.

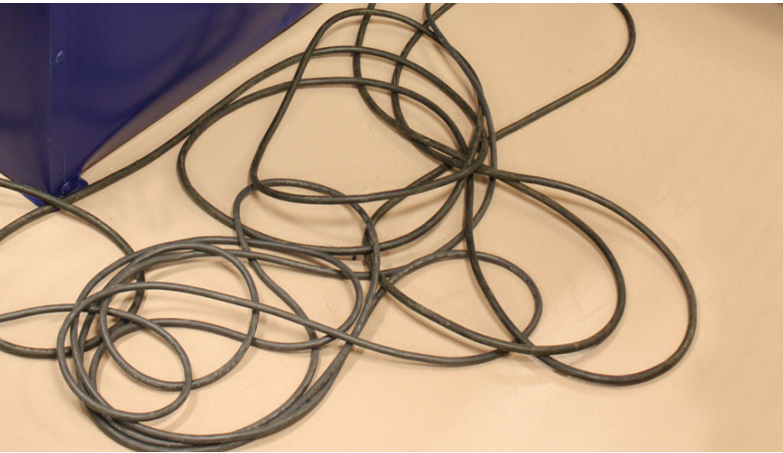
Liquidtight Protection

NEC® Information: Article 356.10 Liquidtight Flexible Nonmetallic Conduit shall be permitted to be used in exposed or concealed locations for the following purposes: (1) Where flexibility is required for installation, operation, or maintenance. (2) Where protection of the contained conductors is required. (3) For outdoor locations, if listed and marked for the purpose. (4) For direct burial, if listed and marked for the purpose. (5) Type LFNC-B shall be permitted to be installed in lengths longer than 6 feet where secured per 356.30. (6) For encasement in concrete, if listed for direct burial, and installed per 356.42.

- Is the application in a wet, damp or corrosive environment?
- Is there a need to accommodate movement or vibration for the installation?
- Has metal fatigue or separation been an issue with existing Liquidtight conduit?



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Problem: Cables on floors and work surfaces create electrical safety and trip hazards.

Solution: Cord reels position potentially hazardous cables above the work space and allows them to be easily retracted when not in use, improving safety and extending cord life.

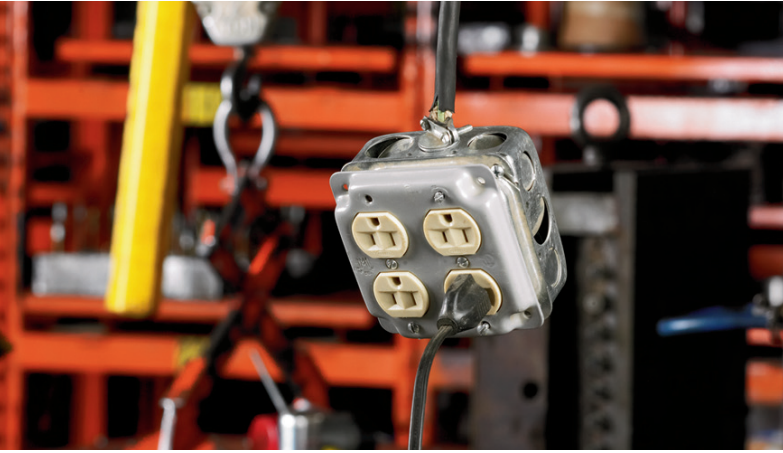
Cable Management

OSHA Information: 1926.416(e)(1) Requires that worn or frayed electrical cables shall not be used. Precautions be taken to mitigate wear including protection from damage and pinch points.

- Are there unmanaged cords or hoses that may cause trips or risk of electrical shock?
- Is exposure to weather or hose down likely?
- Do drop lights need to be stored when not in use?
- Do extension cords have open neutral ground fault circuit interrupter protection?
- Will the application require cords to be pulled in multiple directions?
- Are temporary static discharge connections required for portable equipment or processes?



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Problem: Standard GFCI duplex receptacles are installed in outlet boxes on the end of cords fed by overhead reels.



Solution: Installed portable GFCI protective device that includes the necessary open neutral protection at the end of the cord reels and other temporary power cords.

GFCI Cord Reels

UL Information: Retractable electrical cord reels with Ground Fault Protection (GFCI) are certified to UL 355, which requires GFCI employed in the cord reel to provide open neutral protection.



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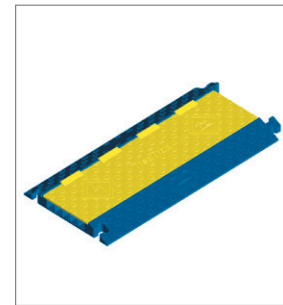
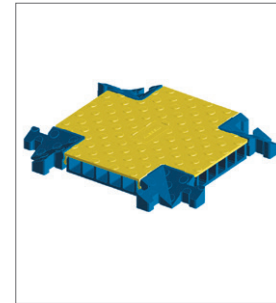
Problem: Electrical cables, pneumatic and hydraulic hoses are damaged when driven over and create a trip hazard.

Solution: Protect your cables and hoses with TrukTrak®, TredTrak® and ProTrak™ nonmetallic cable protectors designed to safeguard electrical cables and cords from vehicle and pedestrian traffic.

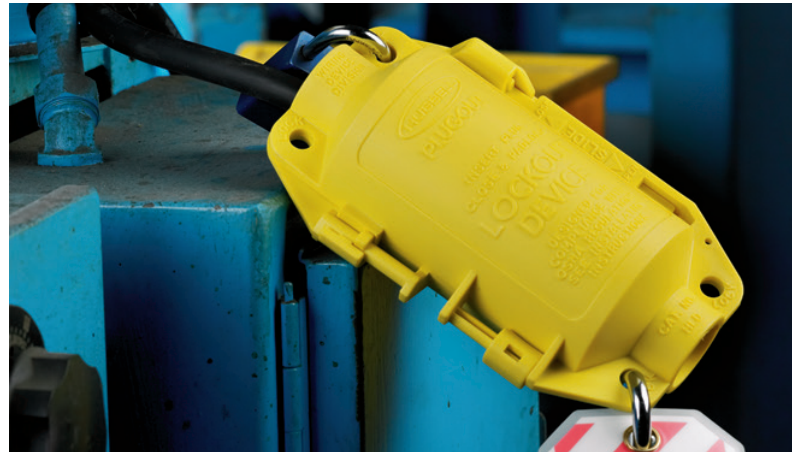
Hose and Cable Protection Systems

NEC® Information: Article 525.20 requires cords to be protected from physical damage and arranged to minimize tripping hazard.

- Do cables or hoses run unprotected across the floor?
- Are unprotected machine connection cables run to peripheral equipment across the floor?
- Is there any vehicle traffic present in the application?
- Is compliance with NEC® Article 525 for insulating cables at public areas required?



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Problem: During machine repair, set-up or change over, employees must be protected from unintentional energizing of equipment.

Solution: Plugout® devices in a full range of sizes, enclose the equipment plug and secure with a keyed padlock.

Lockout, Tagout

OSHA Information: OSHA 29 CFR 1910.333(b)(2) - lists lock-out tag-out procedure

- Is all machinery or equipment capable of movement, required to be de-energized or disengaged and locked-out during cleaning, servicing, adjusting or setting up operations, whenever required?
- Is a lock and tag placed on each disconnecting means used to de-energize circuits and equipment? [29 CFR 1910.333(b)(2)(iii)(A)]
- What type of power source is being locked out and tagged? i.e. plug end, switched interlock, motor starting switch, main breaker etc.
- Are there Power Disconnect Switches in OFF position without lockout/tagout installed?
- When electrical equipment or lines are to be serviced, maintained or adjusted, are necessary switches opened, locked-out and tagged whenever possible?
- Are appropriate employees provided with individually keyed personal safety locks?
- Are employees required to keep personal control of their key(s) while they have safety locks in use?
- Are employees instructed to always push the control circuit stop button immediately after checking the safety of the lock-out?
- Is there a means provided to identify any or all employees who are working on locked-out equipment by their locks or accompanying tags?



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Recommendations

The standards established requirements that employers must follow when employees are exposed to energy while servicing and maintaining equipment and machinery. Some of the most critical requirements from the standards outlined in the OSHA's Fact Sheet are:

- Develop, implement and enforce an energy control program
- Use lockout devices for equipment that can be locked out, or tagout devices only if the tagout program provides employee protection equivalent to that of a lockout
- Ensure that new or overhauled equipment has the capability of being locked out
- Develop, implement and enforce an effective tagout program if machines or equipment are not capable of being locked out
- Develop, document, implement and enforce energy control procedures. [See the note to 29 CFR 1910.147(c)(4)(i) for an exception to the documentation requirements.]
- Use only lockout/tagout devices authorized for the particular equipment or machinery and ensure that they are durable, standardized and substantial
- Ensure that lockout/tagout devices identify the individual users
- Establish a policy that permits only the employee who applied a lockout/tagout device to remove it. [See 29 CFR 1910.147(e)(3) for exception.]
- Review all energy control procedures annually at a minimum
- Provide effective training as mandated for all employees covered by the standard.
- Comply with the additional energy control provision in OSHA standards when machines or equipment must be tested or repositioned, when outside contractors work at the site, in group lockout situations, and during shift or personnel changes



Problem: Disconnect switches required for production equipment in industrial finishing applications may need to be located in an area where flammable vapors could be present.

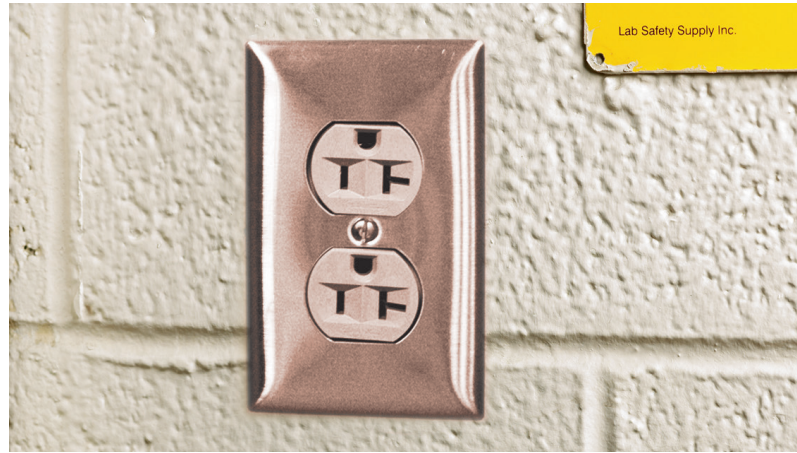
Solution: Hazardous location disconnect switches and mechanical interlocks are ideal for applications with the presence of flammable gases or vapors, or ignitable dust or fibers and have the required identifications for use in the Class I locations.

Disconnect Switches

NEC[®] Information: Article 501.115 requires switches, motor controllers shall be provided with enclosures and shall be identified as a complete assembly for use in Class I locations.

- Are there areas where vapors or dust could be classified as a hazardous location?
- Are the electrical devices and appliances specified for use in hazardous locations?
- Are the enclosures identified clearly and permanently for use in the appropriate hazardous location class and division?

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Problem: Misapplied receptacle grades installed in demanding applications such as production floors and maintenance shops.

Solution: Industrial receptacles with impact resistant faces to minimize damage from impact and abrupt plug removal. Stainless steel plates provide excellent strength and protection.

Heavy Duty Receptacles

NEC® Information: Article 110.3 and 110.12(B) provide considerations, such as mechanical strength and structural integrity, for selection of suitable devices for installations.

- Is the receptacle face cracked or broken?
- Is the receptacle grade adequate to withstand the abuse level for the application?
- Are the wall plates installed impact resistant?



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Problem: Devices are installed and used in demanding environments that can cause contacts and fasteners to develop corrosion.

Solution: Use corrosion-resistant devices in applications where salt water and chemicals are likely to attack components.

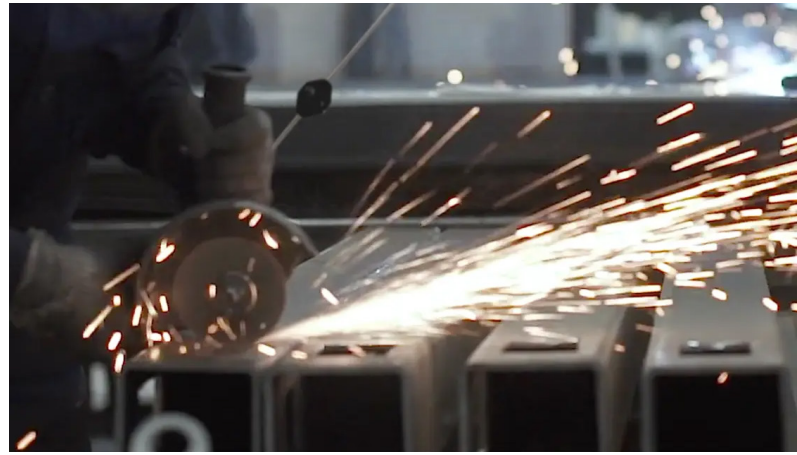
Corrosion Resistant Devices

NEC® Information: Article 110.11 states equipment and conductors shall not be installed, unless identified for use, in the operating environment with exposure to deteriorating effects.

- Are connections that are used mainly outdoors rated for the applications?
- Are corrosive chemicals employed near by within the facility?
- Has corrosion been an issue on electrical contacts or metal fasteners?
- Does the application require NEMA 3R, 4, or 4X rated devices?



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Problem: Unsupported handheld tools cause worker strain and are damaged when dropped.

Solution: Use tool balancers to improve ergonomics and reduce equipment damage

Tool Balancers

- Are there tools laying on benches?
- Are there cables or hoses extended across the floor creating trip hazards?
- Are workers performing repetitive movements with handheld tools?
- Are tools being dropped and damaged?
- Are tools being misplaced or lost?
- Have workers reported work-related musculoskeletal disorders (MSDs) such as carpal tunnel syndrome, tendonitis, or back injuries?



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Problem: Damage to electrical equipment when mobile machinery is moved while connected to the power source

Solution: Use a specifically designed breakaway coupler.

LineSafe Breakaway Connector

- Can potential damage occur when electrical equipment is moved without disconnecting from the power supply?
- Do trucks, trailers, or other vehicles plug in to a power supply?



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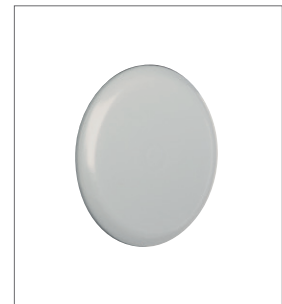


Problem: Enclosures are designed to a specific NEMA rating and all penetrations in the enclosure need to be sealed with devices or seals that meet those same ratings.

Solution: Wiegmann hole seals are designed to meet NEMA 1, 12, 13, 4, and 4X (stainless Steel) ratings to maintain the required electrical rating of the enclosure they are installed in.

Electrical Enclosure Hole Seal

- Have the enclosure configurations changed? This can happen periodically by error or update. Don't leave a gaping hole in an electrical enclosure. Wiegmann hole seals in painted carbon steel or 304 stainless steel range from .5" to 4" for nearly every application.



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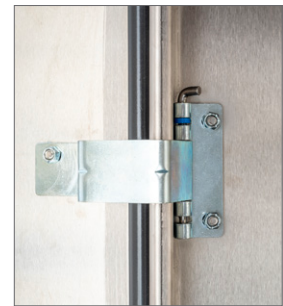


Problem: Faulty electrical components caused by cleaning processes or bacterial growth from water stagnation and organic material.

Solution: Enclosures specifically designed to go beyond NEMA 4/4X hose down testing meet the IP69 standard for high temperature and high pressure sanitizing.

Enclosures

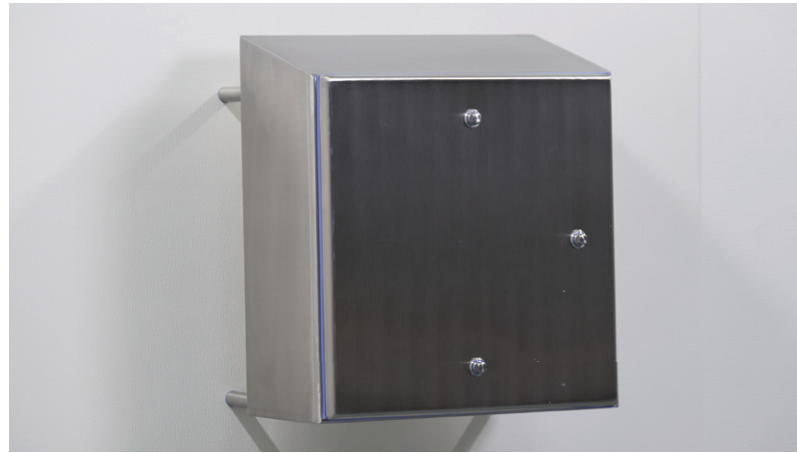
- Are electrical equipment enclosures located in the production area where Food products are being produced or processed?
- Are electrical equipment enclosures located in or near production areas that get regularly washed down by hose or pressurized water or chemicals?
- Are these enclosures not adequately protecting the internal components during required cleaning procedures?
- After cleaning, is there stagnant water located on, around, or in crevice or hinges of electrical enclosures?
- Has the facility ever had a product recall due to bacterial contamination?



RECOMMENDATIONS

WIEGMANN HYG-SS series enclosures are designed with blue, silicone outer gaskets, sloped surfaces, internal hinges, and silicone sealed door latches, which shed water and contaminants away from the electrical enclosure. All enclosures are rated to the IP69 standard allowing them to maintain their seal even under high temperature and high pressure washdown where NEMA 4/4X rated enclosures would fail.

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Problem: Many cleaning protocols require that all surfaces of an enclosure be sterilized, including surfaces mounted against a wall.

Solution: Hygienic enclosure wall stand-offs keep the enclosure from collecting water and contaminants between the enclosure and the wall surface.

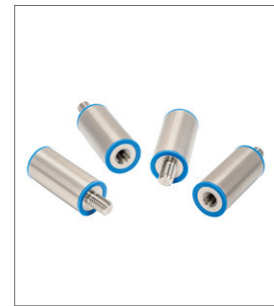
Hygienic Enclosure Wall Stand-offs

NEC® Information: Article 110.11 states equipment and conductors shall not be installed, unless identified for use, in the operating environment with exposure to deteriorating effects.

- Are Electrical Equipment Enclosures mounted directly to a flat surface located in the production area where Food products are being produced or processed?
- Are Electrical Equipment Enclosures mounted directly to a flat surface located in or near production areas that gets regularly washed down by hose or pressurized water or chemicals?
- After cleaning, is there stagnant water located on, around, or behind electrical enclosures?

RECOMMENDATIONS

2" or 4" Hygienic Enclosure standoffs are designed to main the IP69 rating of the Wiegmann HYG-SS Series enclosures and provide space for cleaning and drying the back sides of the electrical enclosure.



NOTES: _____

Safety Evaluation

Date: _____

Contracts: _____

Company: _____

Distributor: _____

Notes: _____

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