

Information and Products for Safety Applications



Thomas&Betts



Safety in food processing is critical. New sanitizers, processing methods, and washing techniques highlight some of the technologies that help businesses meet food safety laws. Steam vacuums, steam pasteurization, and antimicrobials are among the advances in food safety technology that have appeared on the market in recent years.

Even the best intentions to follow the rules may still result in less-than-desired performance. According to USDA's Economic Research Service, hazards in food cause an estimated 76 million illnesses, 325,000 hospitalizations, and 5,000 deaths in the United States each year. Recently, E. coli-contaminated spinach killed at least 3 people and sickened more than 200 in the U.S. alone. A survey by the



High demand for plant production schedules and more profitability may strain the necessary implementation of safety practices.

NPD Group found that in the aftermath of the outbreak, Americans' awareness and concern levels about the safety of food production had reached an all-time high, prompting tougher restrictions from Congress.

Safety is also a measured in profits to manufacturers. The average cost of recalling a food or beverage product can climb into millions of dollars, not including any subsequent loss of revenue that may occur from the unintended damage to the brand image. In some instances, the lack of proper attention to food safety procedures has resulted in costly legal settlements against food producers, relocation of plant facilities or leaving the market altogether.

Cleaning is one of the most important aspects of any food plant's safety initiatives. For the purposes of maximizing all cleaning efforts, many packaging machine manufacturers design systems with all-stainless steel construction. Because stainless steel resists corrosion more than aluminum or other metals, it is highly recommended for components necessary to power equipment in areas of frequent washdowns and those with the constant presence of moisture. Stainless steel is particularly effective in preventing metal flakes, caused by corrosion in moist environments, from accidentally entering food products during the packaging cycle.

Additionally, there are important safety steps taken to prevent foreign objects from falling into open vats or grinding systems. Many plants have banned personnel from using ordinary maintenance supplies or carrying personal items that can pass unnoticed through metal detectors, x-ray equipment and standard visual detection systems. Those responsible for managing safety programs in food processing plants are actively seeking alternative materials that are reliably located with commonly used detection equipment. Of equal importance is the challenge to select the best tools and systems that minimize potential contamination of food processing areas during routine maintenance activities without sacrificing the quality of the installation or extending labor costs.

Questions to consider regarding safety are:

- Is there a potential danger for any contaminants to accidentally enter food processing equipment due to corrosion?
- Will the washdown procedures used in the plant ensure safety and not adversely affect the performance of the equipment?
- What tools can be recommended that meet restrictions for use inside the food processing area?
- Are there alternative materials that are detectable to a variety of safety inspection systems without sacrificing quality?

The following selected products represent materials that offer the greatest degree of safety for your raceway applications. Additionally, some selected T&B products are highlighted that provide excellent solutions for preventing food contamination during routine maintenance in your plant.



Food processing plants are actively seeking alternative materials that are reliably detected with commonly used metal, x-ray and visual detection equipment. Installers are also advised to select the best tools and systems that

prevent accidental contamination of food processing areas during equipment repairs and routine maintenance activities.

Food Safety



Ty-Rap® Detectable Cable Ties are made from standard nylon or polypropylene, but incorporate a unique, patent-pending compound detectable by metal and x-ray detectors. The bright blue color makes them easy to spot, and the polypropylene version is buoyant, making it ideal for use in liquid processing areas.

- “The Grip of Steel®” locking device offers superior performance.
- Oval, low-profile head and smooth molded body shed contaminants and prevent food particle build-up.
- Half the price of stainless steel fasteners.
- Infinitely adjustable design ensures the right fit.

Food Safety



Ty-Rap® Ty-Tote® Dispenser minimizes the potential for accidentally dropping a tie into food processing equipment. Provides a simple, convenient storage container for quick retrieval of your Ty-Rap® detectable cable ties or other styles of your choice.

- Rugged, polyester and vinyl pouch, hook and loop cover flap.
- Offers easy, one-handed access to cable ties.
- Available in sizes to store 4”, 8” or 11”–14” combination length Ty-Rap® cable ties.
- Tension clip attaches pouches to belt, plus steel ring loop for attachment to tool pouch or maintenance carts.
- Minimizes risk of hand-held ties dropping into processing areas.

Food Safety



Hazlux® Fluorescent Lighting Fixtures are suitable for high pressure washdown areas. As a totally sealed fixture design, **they are tested at 1500 PSI over 60 minutes at 5’ and 10’ distances.** The lights operate in a corrosion resistant nonmetallic housing with an extruded aluminum interior assembly. A clear, impact resistant, acrylic lens provides safe, bright illumination in your washdown location.

- All external hardware is stainless steel or nonmetallic.
- Silicone gasket permanently mounted in end cap.
- Many 2, 4 and 8 foot models with multi-lamp T8 or T12 designs.



Safety products help ensure that general industry workers will be protected from accidents during maintenance and servicing of equipment. OSHA estimates compliance with safety standards and installing safe components will

prevent about 120 fatalities and approximately 28,000 serious and 32,000 minor injuries each year.

Food Safety



Hazlux® enclosed and gasketed fixtures for adverse, wet and marine locations integrate a totally sealed fixture design. These lights feature cast aluminum parts and stainless steel inserts and are suitable for highly corrosive wash-down areas. Meets NEMA 4X.

- Safety coated glass globe has a silicone coating to restrain glass particles in case of breakage; prevents glass from contaminating process areas.
- HazCote® Custom Corrosion Resistant Coating (Kynar) provides higher degree of corrosion protection for cast aluminum parts.
- All external hardware is stainless steel or nonmetallic.

Food Safety



T&B Form 8 Conduit Bodies provide pull outlets, 90° bends, splices, taps, and mounting outlets for your electrical raceway system. Form 8 bodies are designed for heavier conductors and have a larger cubic inch capacity than Form 7 bodies. The covers utilize stainless steel screws that tap directly into the wall of the conduit body, providing higher resistance to water in splash areas.

- Sand cast class 30 gray iron alloy bodies, sand cast gray iron alloy covers and Neoprene gaskets.
- Meet all UL test requirements for wet locations.
- T&B Form 8 bodies and covers are interchangeable with Form 8 bodies and covers from other manufacturers .
- **T&B recommends specifying Form 8 for better performance.**

SPECIFICATION



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Electrical /
Personal Safety



Don't let this happen to your installation!

SPECIFICATION

SPECIFICATION

DuraGard® connectors are designed to be watertight mated or unmated (**1000 PSI rated**), thus offering the ultimate waterproof connection. DuraGard connectors are also UL94-V0 flame rated for safety and utilize a durable, efficient pin and sleeve contact design that is voltage polarized to meet NEC210-7 and OSHA standards.

- Designed for wet environments with a unique sealing system.
- Superior performance in corrosive environments.
- High visibility yellow housings.
- Eliminates need for costly "weather boots" or "adapters".
- **Specify that connectors are to be watertight mated and unmated.**
- **Specify that connectors be listed and may be disconnected while under load.**

Electrical /
Personal Safety



E-Z-Code® Lockout/Tagout products offer a convenient, inclusive method to comply with the general requirements of the OSHA Lockout/Tagout standard.

- Wide variety of ball and gate valve lockouts, cable lockout devices, circuit breaker lockout devices, general electrical lockout devices, pneumatic lockout devices, hasps, and assorted lockout/tagout tags and signage.
- Comprehensive Lockout Compliance manual, with training video analyzing real-life scenarios to demonstrate "what went wrong" and how following proper lockout procedures can save lives. Great motivational program for new and experienced employees.

Ergonomics / Personal Safety



Ty-Gun® Cable Tie Tool snugs Ty-Rap® cable ties to perfect tension and cleanly cuts the remaining tails while holding them captive in the tool's nose, preventing the cut-off tails from flying loose and into food processing equipment.

- Lightweight, breakthrough ergonomic design dramatically reduces user stress and strain.
- 360° rotating nose enables operation from any position.
- Front-access tension-adjustment wheel permits fast, easy changes to ensure proper tension and safe operation.
- Rugged, industrial-strength construction for years of use.



Introducing the complete emergency lighting solution, products designed for use in a wide range of commercial

and industrial environments where humidity, dust, water infiltration and vandalism are specification criteria.



Battery Unit - Survive-All™ NXM Series

- Fully gasketed cast aluminum back plate with clear UV resistant polycarbonate cover
- Long-life, maintenance-free sealed lead acid battery
- Choice of MR16 halogen lamps up to 12V, 20W or high-efficiency, 5-Watt, MR16 LED lamps
- Mounting: wall mount
- Unit capacity: up to 108W
- Suitable for cold weather applications; -40°C (CW option)



Remote Fixtures - Survive-All™ EF39 Series

- Choice of single or double head models
- Fully gasketed cast aluminum back plate with clear UV resistant polycarbonate cover
- Choice of MR16 halogen lamps up to 24V, 20W or high-efficiency, 5-Watt, MR16 LED lamps



Combo Unit - Survive-All™ LPEX600-N Series

- Innovative, field-adjustable lamp head assembly
- Choice of MR16 halogen lamps up to 12V, 12W or high-efficiency, 5-Watt, MR16 LED lamps
- Long life, energy efficient ALINGAP technology red LED illuminated EXIT legend
- Can be wall or ceiling mounted
- Double face available
- Suitable for cold weather applications; -40°C (CW option — available in 6V only)



Exit Sign - Survive-All™ LPEX600 Series

- Sealed heavy-duty, vandal-resistant polycarbonate faceplate
- Suitable for cold weather -40°C (AC/DC model) and -25°C on self-powered model (CW option)
- Long-life, energy-efficient ALINGAP technology red LED light source
- Energy efficient – consumes less than 3 watts in AC or DC mode

NSF Certified for Factories of food transformation