safety labels for electrical equipment & facilities management

PROMOTE SAFETY | MINIMIZE RISK | REDUCE INJURIES

» together we can make a difference

From code leadership and guidance to industrial labels, software and printing systems, HellermannTyton offers comprehensive and versatile solutions for customized safety labels. Our products are designed to help meet OSHA, ANSI, NFPA and NEC codes and standards to promote safety, minimize liability risks and reduce workplace injuries.

» *Safety Labels for Electrical Equipment & Facilities Management*

According to the U.S. Bureau of Labor Statistics (BLS), there were over 2.8 million[1] workplace injury cases reported in the U.S. private sector in 2012, and nearly 4,400[2] fatal workplace injuries.

Every workplace carries potential risks for injuries. Safety audits must be conducted whenever building and installing industrial automation equipment. In addition, electrical equipment must be identified and contain appropriate warnings to reduce the risk of injury from electrical shock, Arc Flash and other hazards. And while no employer can completely eliminate these risks and injuries, it is of the utmost importance and a duty that companies do all they can to protect employees. Furthermore, workplace safety may be viewed as a financial imperative, as the associated costs can be substantial.

» THE COSTS OF WORKER'S COMPENSATION CLAIMS

The Occupational Safety and Health Administration (OSHA) estimates the direct costs of workplace injuries and illness to U.S. employers at over $1 billion each week.[3] The total cost of injuries goes far beyond compensation and care for the injury itself.[4]

DIRECT EXPENSES:
• Worker's compensation payments and case management
• Medical expenses

INDIRECT EXPENSES:
• Legal fees
• Training replacement employees
• Regulatory investigations and fines
• Implementation of corrective measures
• Repairs to damaged equipment and property
• Lower productivity due to decreased employee morale and higher absenteeism
• Negative PR that can affect community and customer relations

» DUTY TO WARN

Many times, inadequate safety labeling is not discovered until after a workplace injury has occurred and the Occupational Safety and Health Administration (OSHA) has been called in to do an accident investigation. At that point, inadequate labeling has already done its damage – someone has been injured and, if revealed, the insufficient labeling can be used to indicate a degree of company liability for the injury.

The duty to warn of workplace hazards is a shared responsibility. Often, electrical equipment and machinery will arrive at the destination facility with safety labeling applied by the original equipment manufacturer (OEM). However, the company installing and using the equipment may be required to apply additional labels on manufacturing and electrical equipment, as well as safety and informational signage throughout the facility.

It is recommended that an employer or product manufacturer (such as electrical and automation equipment manufacturers) provide a warning if any of the following apply:

• The product is dangerous without the warning.
• The degree of danger is or should be known to the equipment manufacturer and/or employer.
• The specific danger is not known or obvious to the user.
• Danger could arise during a foreseeable use (or misuse) of the product.

HellermannTyton safety labels for electrical equipment and facilities management are designed to provide guidance and solutions for proper labeling design, placement, durability and color requirements as outlined in the most recent codes and standards issued by:

- **National Electrical Code (NEC)**
- **National Fire Protection Association (NFPA)**
- **American National Standards Institute (ANSI)**
- **Occupational Safety and Health Organization (OSHA)**

» HELLERMANNTYTON SAFETY LABEL SYSTEM SOLUTIONS

HellermannTyton knows complex labeling codes and standards, and offers a complete system solution to safety labeling in equipment and electrical environments, including:

- **Code compliance guidance**
- **Wide variety of industrial-grade labels and materials**
- **Advanced label creation software and printing systems**

The intent of this brochure is to provide guidance and clarification of codes related to the labeling of electrical equipment, machinery and manufacturing facilities.

Due to space limitations, some codes may have be shortened or summarized. For full code listings, please refer to the published code books.

OVERVIEW

» UNDERSTANDING AND APPLY THE CODES

When designing safety labels for use on electrical equipment, machinery and within a facility, there are application-specific codes and general codes that apply to all labels.

In general, those persons creating labels should keep in mind the following ANSI and NEC codes for all safety labels:

ANSI Z535.4 - 2011 This standard established a national uniform system for signs that communicate safety information. This standard (American National Standard) provides guidance for manufacturers, employers, distributors, and others who have a desire to communicate safety information through product safety signs or labels.

ANSI Z535.4 - 10.1 EXPECTED LIFE Product safety signs or labels shall have a reasonable expected life with good color stability, symbol legibility, and word message legibility as described in Section 8.2. Reasonable expected life shall take into consideration whether the safety sign is permanent or temporary, the expected life of the product, and the foreseeable environmental use.

NEC 2014 The National Electrical Code (NEC 2014) defines where labels should be used and what information is required. The NEC suggests that label formats meet ANSI standards per NEC 110.21(B).
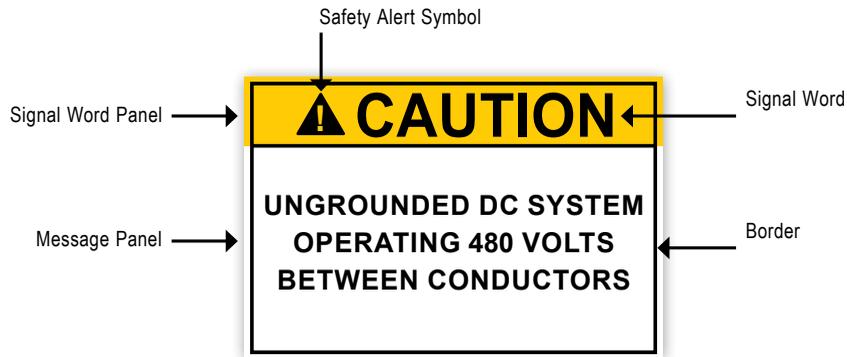
NEC 110.21(B)(1-3) FIELD APPLIED HAZARD MARKINGS Where caution, warning or danger signs or labels are required by this code, the labels shall meet the following requirements: (1) The marking shall adequately warn of the hazard using effective words and/or colors and/or symbols. (2) The label shall be permanently affixed to the equipment or wiring method and shall not be hand written. (3) The label shall be of sufficient durability to withstand the environment involved.

The codes referenced in this book are taken from NEC 2020, NFPA 70E - 2018, NFPA 79 - 2018, ANSI Z535 - 2011, OSHA 1910 - 2015 and UL 508A Third Edition, 2018.

safety label basics

When reading through codes pertaining to safety labels, it is helpful to understand the different elements or parts of a label. The diagram below uses a CAUTION label to illustrate.

Safety Alert Symbol

Signal Word Panel → ⚠ **CAUTION** ← Signal Word

Message Panel → **UNGROUNDED DC SYSTEM OPERATING 480 VOLTS BETWEEN CONDUCTORS** ← Border

See ANSI Z535.4 – 2011 for a complete listing of definitions pertaining to safety labels.

identify the hazard

One of the first steps in creating safety labels is to assess the situation to determine the level of hazard. According to ANSI Z535.4 - 2011, the following types of situations should be considered and identified:

Hazard Alerting Signs

⚠ DANGER

» DANGER
Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

» WARNING
Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

» CAUTION
Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

Safety Notice and Safety Instructional Signs

NOTICE

» NOTICE
Is used to address practices not related to physical injury.

SAFETY

» SAFETY INSTRUCTION
Signs indicate specific safety-related instructions or procedures.

⚠

Safety Alert Symbol

ANSI Z535.4 - 4.11 SAFETY ALERT SYMBOL A symbol that indicates a hazard. It is comprised of an equilateral triangle surrounding an exclamation mark. The safety alert symbol is only used on hazard alerting signs. It is not used on safety notice or safety instruction signs.

ANSI Z535.4 - 6.3 A safety alert symbol, when used with the signal word shall precede the signal word.

the signal word panel

Once you have determined the hazard level, you can create the signal word panel of the safety label. ANSI and OSHA detail how fonts, colors and symbols should be used within the signal word panel.

ANSI Z535.4 - 8.1.1 Signal words shall be in sans serif letters in upper case only.

ANSI Z535.4 - 7.2 / OSHA 1910.145(d)(1-6) Detail color requirements for signal word panel (header) colors, as follows:

DANGER must be white letters on a red background.

WARNING must be black letters on an orange background.

CAUTION must be black letters on a yellow background.

NOTICE must be italicized white letters on a blue background.

SAFETY must be white letters on a green background.

Note: Informational labels (that do not require the safety word headers DANGER, WARNING, CAUTION, NOTICE or SAFETY) can be any color background with any color text. Examples include labels made for LEAN initiatives, bin labeling, rack labeling, general statements or instructions, or any other required signage.
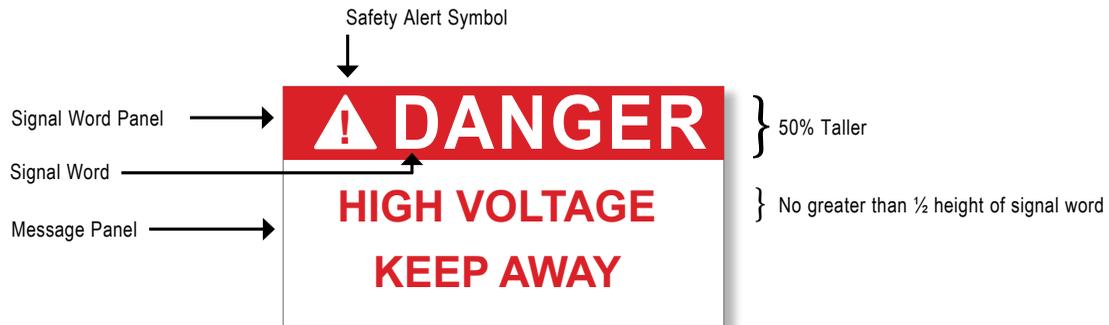
signal word height

ANSI Z535.4 - 8.2.3 Signal word letter height to be at least 50% greater than the height of the capital H in the message.

In other words, signal word letter height should be at least 50% greater than the height of upper case lettering in the message panel.

Safety Alert Symbol

Signal Word Panel →

Signal Word

Message Panel →

⚠ **DANGER**

HIGH VOLTAGE

KEEP AWAY

} 50% Taller

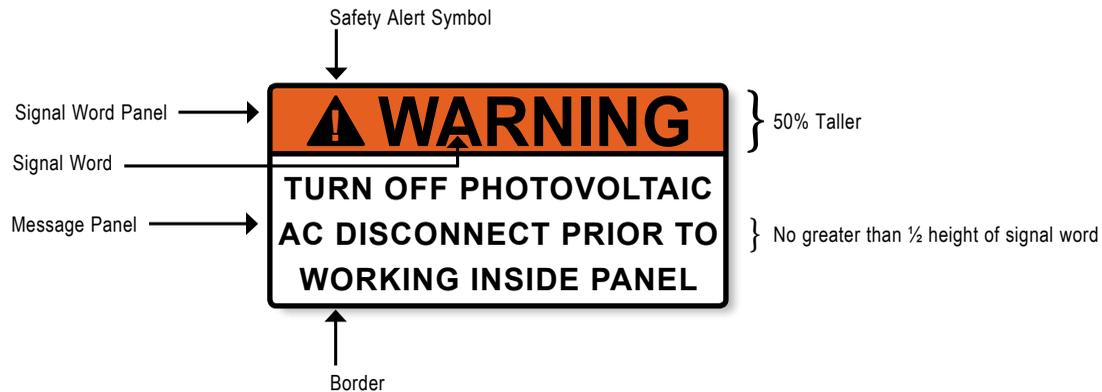} No greater than ½ height of signal word

the message panel

In addition to the signal (header) panel, ANSI also sets requirements for other parts of the label, including the message panel and borders:

ANSI Z535.4 MESSAGE PANEL Message panel lettering should be a combination of upper or lower case letters. Upper case lettering may be used for short messages or emphasis of individual words. Message panel can be black characters on a white background or white characters on a black background.

BORDER A contrasting border MAY be used to achieve distinctiveness. The border can be in black or safety white, whatever provides for better contrast.

Safety Alert Symbol

Signal Word Panel → **⚠ WARNING**   } 50% Taller

Signal Word

Message Panel → **TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL**   } No greater than ½ height of signal word

Border

pictograms

Graphic safety symbols or pictograms are used to supplement written warnings. These symbols provide non-verbal communication about a possible hazard. The use of pictograms on labels is optional, but is recommended for the following reasons:

• Pictograms help to explain hazards quickly, using visual recognition.
• Using pictograms helps to communicate with nonreaders, and also helps communicate information universally, to people of all languages.
• Pictograms can be used to visually convey the consequence of not avoiding the hazard.

ANSI Z535.4 - 4.13 SAFETY SYMBOL A graphic representation intended to convey a safety message without the use of words.

ANSI Z535.4 - ANNEX B4 Well designed safety symbols can often communicate hazard information quickly and across language and literacy barriers. Things to consider are the clarity, speed of communication, space availability, and translation and literacy issues.

ANSI Z535.4 - ANNEX A1.4 The meaning of any safety symbols used on safety labels may be explained in collateral materials.

ANSI Z535.4 - 7.4 SAFETY SYMBOL PANEL The safety symbol panel shall have a safety black symbol on a safety white background. Other colors MAY be used for safety symbol emphasis, such as safety red for fire, etc. *Note: If a surround shape is desired, the safety symbol / pictogram should be placed within a yellow equilateral triangle. The yellow equilateral triangle is required on safety alert symbols used on ISO compliant product safety labels and is covered in ANSI Z535.3.*
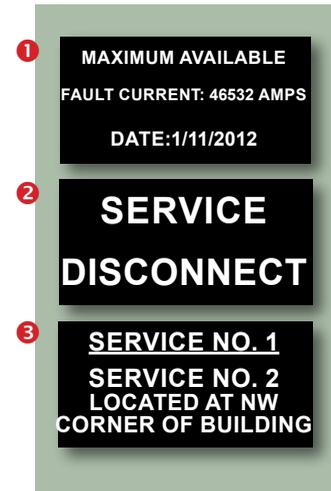

⚠ **DANGER**

PINCH
POINT

service equipment

Electrical infrastructure, which can start at the main service entrance and end at a control panel or a piece of industrial automation machinery, must be managed all along the path. Paths can include feeders, motor control centers (MCCs), disconnects, breaker panels, switchgear, transfer switches, inverters and all of the branch circuits.

❶ **NEC 110.24(A) AVAILABLE FAULT CURRENT** Field marking – service equipment other than dwelling units shall be legibly marked in the field with the maximum fault current. The field marking(s) shall include the date the fault-current calculation was performed.

❷ **NEC 230.70(B) SERVICE EQUIPMENT** Each service disconnect shall be permanently marked to identify it as a service disconnect.

❸ **NEC 230.2(E) IDENTIFICATION** Where a building or structure is supplied by more than one service, or any combination of branch circuits, feeders, and services, a permanent plaque or directory shall be installed at each service disconnect location denoting the other services, feeders or branch circuits supplying that building or structure, and the area served by each.

❶ MAXIMUM AVAILABLE
FAULT CURRENT: 46532 AMPS
DATE:1/11/2012

❷ SERVICE DISCONNECT

❸ SERVICE NO. 1
SERVICE NO. 2
LOCATED AT NW
CORNER OF BUILDING

558-00311

disconnects

❶ NFPA 70E ARTICLE 205.12 Circuit and voltage identification shall be securely affixed and maintained in updated and legible condition.

ANSI ZG3.22 VOLTAGE MARKERS Orange shall be used as the basic color for designating dangerous parts of machines or energized equipment.

❷ NEC 110.22(A) IDENTIFICATION OF DISCONNECTING MEANS Each disconnecting means shall be legibly marked to indicate its purpose unless located and arranged so the purpose is evident. In other than one or two-family dwellings, the marking shall include the identification of the circuit source that supplies the disconnecting means. The marking shall be of sufficient durability to withstand the environment involved.

NEC 110.27(C) WARNING SIGNS Entrance to rooms and other guarded locations that contain exposed live parts shall be marked with conspicuous warning signs forbidding unqualified persons to enter.

558-00336

558-00314

558-00330

distribution panel

❶ **NFPA 70E ARTICLE 205.12** Circuit and voltage identification shall be securely affixed and maintained in updated and legible condition.

ANSI ZG3.22 VOLTAGE MARKERS Orange shall be used as the basic color for designating dangerous parts of machines or energized equipment.

❷ **NEC 110.16 ARC FLASH LABELS / NFPA 70E ARTICLE 130.5(C) EQUIPMENT LABELING** Electrical equipment such as switchboards, switchgear, panelboards, industrial control panels, meter socket enclosures, and motor control centers, that are in other than dwelling units, and are likely to require examination, adjustment, servicing or maintenance shall be field or factory marked to warn qualified persons of potential electric arc flash.

❸ **NEC 408.4(A) CIRCUIT DIRECTORY OR CIRCUIT IDENTIFICATION** Every circuit and circuit modification shall be legibly identified as to its clear, evident and specific purpose or use. The identification shall include an approved degree of detail that allows each circuit to be distinguished from all others. The identification shall be included in a circuit directory that is located on the face, inside of, or in an approved location adjacent to the panel door in the case of a panelboard and at each switch or circuit breaker in a switch-board or switchgear. No circuit shall be described in a manner that depends on transient conditions of occupancy.

❹ **NEC 210.5(C)(1)(B) POSTING OF IDENTIFICATION MEANS** The method utilized for conductors originating within each branch-circuit distribution equipment shall be documented in a manner that is readily available or shall be permanently posted at each branch-circuit panelboard or similar branch-circuit distribution equipment.

❺ **NEC 408.3(F)(1) HIGH LEG IDENTIFICATION** A switchboard, switchgear, or panelboard containing a 4-wire, delta-connected system where the mid-point of one phase winding is grounded shall be legibly and permanently marked.

❻ **NEC 110.26(A)(1-3) SPACES ABOUT ELECTRICAL EQUIPMENT** Access to working space shall be provided and maintained about all electrical equipment to permit ready and safe operation and maintenance of such equipment. Working space shall comply with the dimensions of 110.26(A)(1), (A)(2) and (A)(3).

distribution panel

❼ NEC 110.27(C) WARNING SIGNS Entrance to rooms and other guarded locations that contain exposed live parts shall be marked with conspicuous warning signs forbidding unqualified persons to enter.

NEC 490.48(B)(2) ISOLATING EQUIPMENT Permanent legible signs shall be installed at isolating equipment warning against operation while carrying current, unless the equipment is interlocked so that it cannot be operated under load.

Safety signs, safety symbols, or accident prevention tags shall be used where necessary to warn employees about electrical hazards which may endanger them as required by OSHA 1910.145.
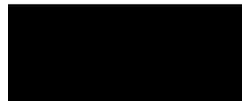
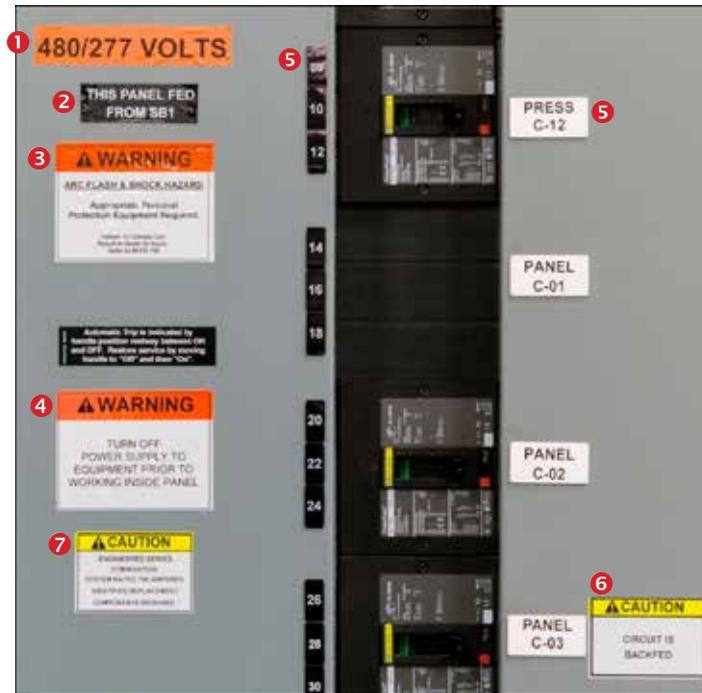
558-00336   558-00311   558-00330   558-00328

switchboards and feeders

❶ NFPA 70E ARTICLE 205.12 Circuit and voltage identification shall be securely affixed and maintained in updated and legible condition.
ANSI ZG3.22 VOLTAGE MARKERS Orange shall be used as the basic color for designating dangerous parts of machines or energized equipment.

❷ NEC 408.4(B) SOURCE OF SUPPLY All switchboards, switchgear, and panelboards supplied by a feeder(s) in other than one- or two-family dwellings shall be marked to indicate each device or equipment where the power originates.

❸ NEC 110.16 ARC FLASH LABELS / NFPA 70E ARTICLE 130.5(C) EQUIPMENT LABELING Electrical equipment such as switchboards, switchgear, panelboards, industrial control panels, meter socket enclosures, and motor control centers, that are in other than dwelling units, and are likely to require examination, adjustment, servicing or maintenance shall be field or factory marked to warn qualified persons of potential electric arc flash.

❹ NEC 110.27(C) WARNING SIGNS Entrance to rooms and other guarded locations that contain exposed live parts shall be marked with conspicuous warning signs forbidding unqualified persons to enter.

❺ NEC 408.4(A) CIRCUIT DIRECTORY OR CIRCUIT IDENTIFICATION Every circuit and circuit modification shall be legibly identified as to its clear, evident and specific purpose or use. The identification shall include an approved degree of detail that allows each circuit to be distinguished from all others. The identification shall be included in a circuit directory that is located on the face, inside of, or in an approved location adjacent to the panel door in the case of a panelboard and at each switch or circuit breaker in a switch-board or switchgear. No circuit shall be described in a manner that depends on transient conditions of occupancy.

❻ NEC 705.12(C) MARKING Equipment containing overcurrent devices or circuits supplying power from multiple sources shall be marked to indicate the presence of all sources.

❼ NEC 110.22(B) ENGINEERED SERIES COMBINATION SYSTEMS Shall be legibly marked in the field as described by the engineer to indicate the equipment has been applied with a series combination rating. The marking shall meet the requirements in 110.21(B) and shall be readily visible.

switchboards and feeders

558-00336   596-00504   558-00330   558-00328   558-00307

industrial control panels

The NEC defines industrial control panels as an assembly of two or more power circuit components, control circuit components or any combination of power and control circuit components. These may include panels designated for the control of specific equipment — such as industrial machinery. These components, with associated wiring and terminals, are mounted on, contained within, an electrical enclosure or mounted on a subpanel. The primary hazards relating to these panels concern the use of electricity.

OSHA 1910.335(B)(1) Safety signs, safety symbols, or accident prevention tags shall be used where necessary to warn employees about electrical hazards which may endanger them as required by 1919.145.

UL 508A SECTION 55.1 Cautionary markings shall be located on a part that is not removable without impairing the operation or appearance of the equipment.

UL 508A SECTION 52.4 Markings required to be placed on an industrial control panel as specified in notes (a) – (d) and note (f) of Table 52.1 shall be made by die stamping, silk-screening, or etching in metal or plastic or with an indelible ink on adhesive backed label stock and permanently attached to the industrial control panel by rivets, screws, or adhesive.

UL 508A SECTION 52 GENERAL MARKINGS Follow all marking instructions as outlined in UL 508A second edition, dated December 30, 2013 or later.

industrial control panels

UL 508A SECTION 55.2 A cautionary marking shall be prefixed with the word "CAUTION" or "WARNING" as applicable, in letters not less than 1/8" (3.2mm) high. The remaining letters of such marking, unless otherwise specified, shall not be less than 1/16" (1.6mm) high.

UL 508A SECTION 55.3 A cautionary marking intended to instruct the operator shall be legible and visible to the operator during normal operation of the equipment. A marking that provides servicing instructions shall be legible and visible when such servicing is performed.

CONTROL
PANEL

industrial control panels

❶ NFPA 70E ARTICLE 205.12 / UL 508A SECTION 49.6 Circuit and voltage identification shall be securely affixed and maintained in updated and legible condition.

ANSI ZG3.22 VOLTAGE MARKERS Orange shall be used as the basic color for designating dangerous parts of machines or energized equipment.

❷ NEC 110.16 ARC FLASH LABELS / NFPA 70E ARTICLE 130.5(C) EQUIPMENT LABELING Electrical equipment such as switchboards, switchgear, panelboards, industrial control panels, meter socket enclosures, and motor control centers, that are in other than dwelling units, and are likely to require examination, adjustment, servicing or maintenance shall be field or factory marked to warn qualified persons of potential electric arc flash.

❸ NFPA 79 CHAPTER 16.3 FUNCTIONAL IDENTIFICATION / UL 508A SECTION 67.2.1 Control devices, visual indicators, and displays used in the operator machine interface shall be clearly and durably marked with regard to their function either on or adjacent to the unit.

❹ NEC 110.27(C) WARNING SIGNS Entrance to rooms and other guarded locations that contain exposed live parts shall be marked with conspicuous warning signs forbidding unqualified persons to enter.

❺ UL 508A SECTION 49.6 The voltage rating of an industrial control panel shall not exceed the voltage rating of any component connected to the source of supply. When an industrial control panel contains components marked with a slash voltage rating, such as 120/240, 480/277, or 600/347, the voltage rating of the industrial control panel shall be: a) The complete slash voltage rating, when intended for connection to the higher voltage; or b) Not more than the lower voltage.

industrial control panels

❻ UL 508A SECTION 67.4.1 An enclosure that does not clearly contain electrical parts shall be marked "CAUTION – High Voltage - _____V" , or with a black lighting flash on a yellow background within a black triangle, or equivalent marking. *NOTE: If a Pre-Printed Header Label is used, it is recommended that the header word be changed from CAUTION to DANGER, due to the hazard level. This is also the preferred hazard classification per ANSI/OSHA and NEC.*

❼ NFPA 79 CHAPTER 10.7.3 Actuators of emergency stop shall be colored RED. The background immediately around pushbuttons and disconnect switch actuators used as emergency stop devices shall be colored YELLOW.

596-00801

596-00202
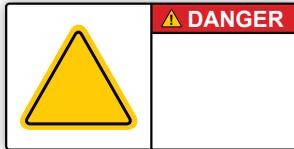
558-00377

558-00336

558-00330

❶ ❺ 480 VOLTS
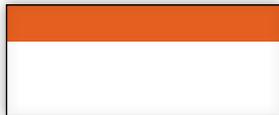
596-00622

596-00413

Labeling the control panel to the requirements outlined in this booklet will not make your industrial control panel UL listed. UL listing is a separate certification process that requires the approval of a certified listing agency. HellermannTyton makes no claim or warranty regarding code compliance. The user is responsible to research all code requirements prior to installation of any labeling that can affect equipment or worker safety.

industrial control panels

❶ **NEC 409.110 / UL 508A SECTION 52.1 ENCLOSURES** An industrial control panel shall be marked with the following information that is plainly visible after installation. 1) Manufacturer's name or trademark or authorized designation. 2) Supply voltages, number of phases, and full load current for each incoming supply circuit. 3) If supplied by more than one power source, the panel shall be marked to indicate more than one disconnecting means is required to de-energize the equipment. 4) Short circuit current rating (SCCR). 5) If intended as service equipment shall be marked as such. 6) Electrical wiring diagram or ID number of separate diagram. 7) Factory identification. 8) Enclosure type.

❷ **UL 508A SECTION 56.1 FUSE HOLDER MARKINGS** A branch circuit fuse holder that accepts a fuse having a rating larger than the maximum specified rating and all control panel circuit fuseholders shall be marked with the voltage and current rating of the replacement fuse. *Note: Fuse ratings also fall under NEC 409 for short circuit current rating (SCCR) where a panel's overall short circuit current rating is important to passing inspection. Customers may require evidence of compliance with 110.3(B) and listing the fuse number and type will ensure that the SCCR rating does not change.*

❸ **NEC 110.3(B) EXAMINATION, IDENTIFICATION, INSTALLATION AND USE OF EQUIPMENT** The torque and fuse requirements can be labeled per NEC 110.3(B) which states that listed or labeled equipment shall be installed and used in accordance with any instructions included in the listing labeling.

❹ **NFPA 79 CHAPTER 16.5.4** All control panel devices and components shall be plainly identified with the same designation as shown on the machine drawings or diagram(s).

❺ **NFPA 79 CHAPTER 13.1.1.10** Identification tags shall be readable, permanent, and identified for use in the physical environment.
Note on Wire Identification: Printable heat shrink tubing or self-laminating labels are industry standards for marking wires.

industrial control panels

❻ **NFPA 79 CHAPTER 13.1.1.6** Terminals on terminal blocks shall be plainly identified to correspond to markings on the diagram.

❼ **NEC 250.126(3) MARKING** If the terminal for the grounding conductor is not visible, the conductor entrance hole shall be marked with the word GREEN or GROUND, the letters G or GR, a grounding symbol, or otherwise identified with a distinctive green color.

❽ **UL 508A SECTION 54.5** Identify your grounding conductor terminal with the words "Ground" or "Grounding", or with the letters "G", "GR", "GRD", "GND", or "GRND".

596-00380
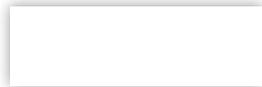
558-00309

TAG22T3-100B

TAG79T1-795, TAG72T1-795
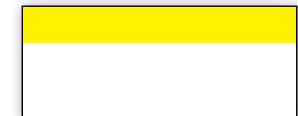
558-00331

TAG75T1-822

industrial control panels - special circumstances

❶ **UL 508A SECTION 67.1.3** When the main overcurrent protection in the panel is intended to provide protection for the supply conductors in the machine, the panel shall be marked "Supply conductor and machine overcurrent protection provided at main supply terminals."

❷ **UL 508A SECTION 53.4** An enclosed industrial control panel consisting of two or more sections intended to be connected together in the field shall have the following marking, or equivalent wording, on each section.

❸ **UL 508A SECTION 55.4** An industrial control panel intended to be provided with more than one supply source such that more than one disconnect is required to disconnect all power within the control panel shall be marked with the word "CAUTION" and the message panel text as shown, or equivalent.

❹ **UL 508A SECTION 55.5** The marking for an enclosure intended for field assembly of the bonding means in accordance with 24.1(b) shall be located where visible during installation, such as inside the cover, and consist of the word "CAUTION" and the message panel text as shown, or equivalent.

❶
> **Supply conductor and machine overcurrent protection provided at main supply terminals**

❷
> **Section 1 of 2 see diagram No. 865/A for interconnections**

❸
> ⚠️ **CAUTION**
>
> **Risk of Electric Shock**
>
> **More than one disconnect switch may be required to de-energize the equipment before servicing**

❹
> ⚠️ **CAUTION**
>
> **Bonding between conduit connection is not automatic and must be provided as part of the installation**

industrial control panels - special circumstances

❶ **UL 508A SECTION 54.11(A,B,C,D)** All field-wiring terminals shall be marked with one of the following:

a) "Use Copper Conductors Only" for terminals intended for connection only to copper wire.

b) "Use Aluminum Conductors Only" for terminals evaluated only for connection to aluminum wire.

c) "Use Copper or Aluminum Conductors" or "Use Copper, Copper-Clad, Aluminum, or Aluminum Conductors" for terminals evaluated for either copper or aluminum wire.

d) "Use Copper or Copper-Clad Aluminum Conductors" for terminals evaluated for connection to either copper or copper clad aluminum wire.

❷ **UL 508A SECTION 60.3** An industrial control panel schematic wiring diagram that includes devices that are not provided with the industrial control panel shall be marked to indicate that these devices shall be provided by the installer.
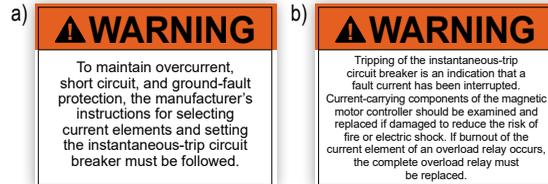
❸ **NEC 409.110** If the industrial control panel is intended as service equipment, it shall be marked to identify it as being suitable for use as service equipment.

❶

USE COPPER OR ALUMINUM CONDUCTORS

❷

DISCONNECTING MEANS AND/OR BRANCH CIRCUIT PROTECTION IS PROVIDED BY THE INSTALLER.

❸

SERVICE ENTRANCE EQUIPMENT

industrial control panels - special circumstances

UL 508A SECTION 55.6 (A,B) An industrial control provided with an instantaneous trip circuit breaker used as branch circuit protection for a combination motor controller shall be marked with the following:

a) With the word "WARNING" and the message panel text as shown, or equivalent.

b) With the word "WARNING" and the message panel text as shown, or equivalent.

a)
⚠ **WARNING**

To maintain overcurrent, short circuit, and ground-fault protection, the manufacturer's instructions for selecting current elements and setting the instantaneous-trip circuit breaker must be followed.

b)
⚠ **WARNING**

Tripping of the instantaneous-trip circuit breaker is an indication that a fault current has been interrupted. Current-carrying components of the magnetic motor controller should be examined and replaced if damaged to reduce the risk of fire or electric shock. If burnout of the current element of an overload relay occurs, the complete overload relay must be replaced.

UL 508A SECTION 55.7 (A,B) An industrial control with a self-protected combination motor controller shall be marked with the following:

a) With the word "WARNING" and the message panel text as shown, or equivalent.

b) With the word "WARNING" and the message panel text as shown, or equivalent.

a)
⚠ **WARNING**

To maintain overcurrent short-circuit, and ground fault protection, the manufacturer's instructions for selection of overload and short circuit protection must be followed to reduce the risk of fire or electrical shock.

b)
⚠ **WARNING**

If an overload or a fault current interruption occurs, circuits must be checked to determine the cause of the interruption. If a fault condition exits, the current-carrying components should be examined and replaced if damaged, and the integral current sensors must be replaced to reduce the risk of fire or electric shock.

industrial automation

Many pieces of industrial automation machinery include an industrial control panel. Refer to the industrial control panel's instruction manual for labeling requirements.

UL 508A SECTION 55.1 Cautionary markings shall be located on a part that is not removable without impairing the operation or appearance of the equipment.
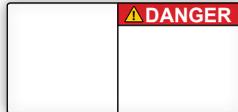

NOTICE

596-00204

SAFETY

596-00371

⚠ **DANGER**

596-00377

⚠ **DANGER**

596-00389

industrial automation

As the use of industrial automation increases, so do the risks of associated injuries. The equipment used in automated environments is complex and can be dangerous if not used properly. It is important that employers clearly communicate hazards and operational directives to industrial automation workers.

UL 508A SECTION 55.2 A cautionary marking shall be prefixed with the word "CAUTION" or "WARNING" as applicable, in letters not less than 1/8" (3.2mm) high. The remaining letters of such marking, unless otherwise specified, shall not be less than 1/16" (1.6mm) high.

UL 508A SECTION 55.3 A cautionary marking intended to instruct the operator shall be legible and visible to the operator during normal operation of the equipment. A marking that provides servicing instructions shall be legible and visible when such servicing is performed.

OSHA 1910.303(E) Electrical equipment may not be used unless the following markings have been placed on the equipment. The manufacturer's name and trademark, other marking giving voltage, current, wattage or other ratings as necessary.

OSHA 1910.335(B)(1) Safety signs, safety symbols, or accident prevention tags shall be used where necessary to warn employees about electrical hazards which may endanger them as required by 1919.145.

OSHA 1910.145 Signal word must be readable from a distance of 5 feet (1.52m). Signs must not constitute a hazard in themselves (sharp corners, etc). Signs must be affixed as close as possible to the hazard via adhesive, string, or wire to prevent unintentional removal. The major message shall be presented in either pictographs, text or both.

OSHA 1910.145(E)(2) The wording of any sign should be easily read and concise. The sign should contain sufficient information to be easily understood. The wording should make a positive, rather than negative suggestion and should be accurate in fact.

label maintenance and replacement

The initial labeling is only one part of proper industrial safety communication and training. To help maximize workplace safety, labels should be inspected periodically for wear and compliance to the most recent codes and standards.

» **ANSI Z535.4 10.2.1** Product safety signs or labels should be periodically inspected and cleaned by the product user as necessary to maintain good legibility as described in section 8.2.

» **ANSI Z535.4 10.2.2** Product safety signs or labels should be replaced by the product user when they no longer meet the legibility requirements as described in Section 8.2. In cases where products have an extensive expected life or where exposed to extreme conditions, the product user should contact either the product manufacturer or another source to determine means for obtaining replacement signs or labels.

⚠ **WARNING**

PLACE MACHINE
IN JOG BEFORE
OPENING GUARD
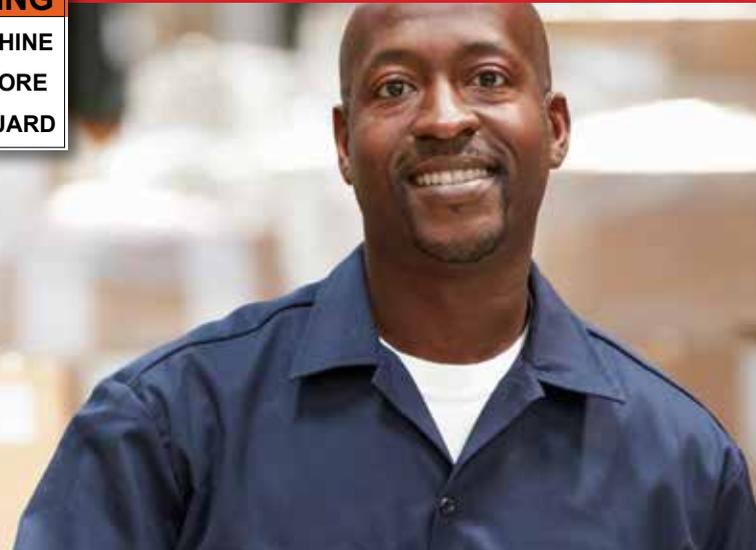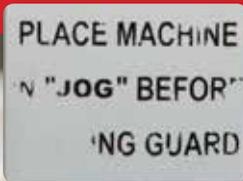
HellermannTyton industrial safety labels

We offer a wide variety of labels designed to meet industrial safety labeling needs.

SOLID COLORED CONTINUOUS VINYL ROLLS
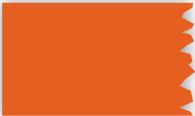
558-00336 | 1″ wide roll
558-00337 | 2″ wide roll
558-00338 | 3″ wide roll

558-00340 | 1″ wide roll
558-00342 | 2″ wide roll
558-00344 | 3″ wide roll
558-00351 | 4″ wide roll

558-00339 | 1″ wide roll
558-00341 | 2″ wide roll
558-00343 | 3″ wide roll

558-00309 | 1″ wide roll
558-00313 | 2″ wide roll
558-00345 | 3″ wide roll
558-00350 | 4″ wide roll

558-00310 | 1″ wide roll
558-00314 | 2″ wide roll
558-00346 | 3″ wide roll

558-00308 | 1″ wide roll
558-00312 | 2″ wide roll
558-00006 | 3″ wide roll
558-00370 | 4″ wide roll

558-00307 | 1″ wide roll
558-00311 | 2″ wide roll
558-00374 | 3″ wide roll

PRE-PRINTED CONTINUOUS COLORED SIGNAL PANEL LABELS

558-00328 | 2″ wide roll
558-00331 | 3″ wide roll
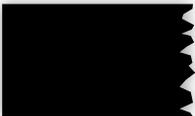558-00334 | 4″ wide roll

558-00327 | 2″ wide roll
558-00330 | 3″ wide roll
558-00333 | 4″ wide roll

PLASTIC NAMEPLATES

PRE-PRINTED SIGNAL WORD LABELS

⚠WARNING
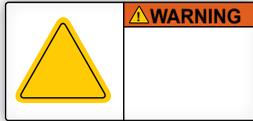
596-00378 ❙ 1.35″ x 2.75″
596-00376 ❙ 2.75″ x 5.5″

⚠ DANGER
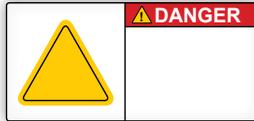
596-00379 ❙ 1.35″ x 2.75″
596-00377 ❙ 2.75″ x 5.5″

⚠WARNING

596-00386 ❙ 1.35″ x 2.75″
596-00388 ❙ 2.75″ x 5.5″

⚠ DANGER

596-00387 ❙ 1.35″ x 2.75″
596-00389 ❙ 2.75″ x 5.5″

⚠ DANGER

596-00203 ❙ 4″ x 6″
596-00424 ❙ 3″ x 2″

⚠WARNING

596-00621 ❙ 4″ x 6″
596-00622 ❙ 3″ x 2″

⚠CAUTION

596-00427 ❙ 4″ x 6″
596-00425 ❙ 3″ x 2″

NOTICE

596-00204 ❙ 4″ x 6″
596-00426 ❙ 3″ x 2″

SAFETY

596-00371 ❙ 4″ x 6″
596-00372 ❙ 3″ x 2″

PRE-PRINTED HEADER LABELS
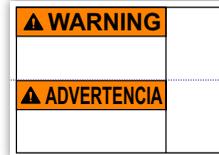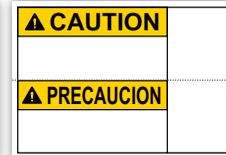
⚠ WARNING

⚠ ADVERTENCIA

596-00396 ❙ 5.0″ x 3.5″

⚠ DANGER

⚠ PELIGRO

596-00397 ❙ 5.0″ x 3.5″

⚠ CAUTION

⚠ PRECAUCION

596-00996 ❙ 5.0″ x 3.5″

⚠DANGER

596-00993
2.7″ x 5.5″

⚠ WARNING

596-00991
2.7″ x 5.5″

⚠ CAUTION

596-00992
2.7″ x 5.5″

⚠ WARNING

⚠ ADVERTENCIA

596-00994
2.75″ x 5.0″

⚠DANGER

⚠ PELIGRO

596-00995
2.75″ x 5.0″

FOAM NAMEPLATE LABELS

596-00417 **|** 3″ x 4″

596-00507 **|** 2″ x 1″

596-00504 **|** 2″ x 1″

596-00503
1.06″ x .49″

596-00500
1.06″ x .49″

596-00415
1.75″ x 1.75″

596-00414
1.75″ x 1.75″

596-00413
1.25″ x 1.25″

596-00412
1.25″ x 1.25″
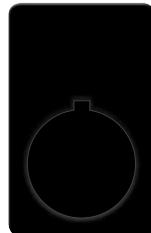
596-00915
1.2″ x 1.9″

596-00916
1.2″ x 1.9″

Continuous Rolls

Continuous Vinyl Rolls come in a wide variety of colors and widths for creating customized labels on demand. Choose from blank, solid-color and color banded labels. Solid labels are used for marking voltage, disconnecting means, electrical panels, conduit, busways, switches, circuit breakers and other electrical equipment. Banded labels have orange and yellow color bands on the top for creating Caution and Warning signal word labels, on demand. Best for use with a thermal transfer printer that has an integrated cutter like HellermannTyton's TT230SMC or TTM430 with cutter.

| Product Selection | | | Width | | Length | | | Pkg. Qty. | Pkg. |
Article No.	Part No.	Type	in	(mm)	ft	(m)	Color	ft	Type
Solid Colored									
558-00309	558-00309	HT1WH250	1.0	(25.4)	250.0	(76.2)	White	250	Roll
558-00313	558-00313	HT2WH250	2.0	(50.8)	250.0	(76.2)	White	250	Roll
558-00345	558-00345	HT3WH250	3.0	(76.2)	250.0	(76.2)	White	250	Roll
558-00350	558-00350	HT4WH250	4.0	(101.6)	250.0	(76.2)	White	250	Roll
558-00310	558-00310	HT1YE250	1.0	(25.4)	250.0	(76.2)	Yellow	250	Roll
558-00314	558-00314	HT2YE250	2.0	(50.8)	250.0	(76.2)	Yellow	250	Roll
558-00346	558-00346	HT3YE250	3.0	(76.2)	250.0	(76.2)	Yellow	250	Roll
558-00308	558-00308	HT1RD250	1.0	(25.4)	250.0	(76.2)	Red	250	Roll
558-00312	558-00312	HT2RD250	2.0	(50.8)	250.0	(76.2)	Red	250	Roll
558-00006	558-00006	HT3RD250	3.0	(76.2)	250.0	(76.2)	Red	250	Roll
558-00370	558-00370	HT4RD250	4.0	(101.6)	250.0	(76.2)	Red	250	Roll
558-00307	558-00307	HT1BK250	1.0	(25.4)	250.0	(76.2)	Black	250	Roll
558-00311	558-00311	HT2BK250	2.0	(50.8)	250.0	(76.2)	Black	250	Roll
558-00374	558-00374	HT3BK250	3.0	(76.2)	250.0	(76.2)	Black	250	Roll
558-00336	558-00336	HT1OE250	1.0	(25.4)	250.0	(76.2)	Orange	250	Roll

Continuous Rolls (continued)

558-00337	558-00337	HT2OE250	2.0	(50.8)	250.0	(76.2)	Orange	250	Roll
558-00338	558-00338	HT3OE250	3.0	(76.2)	250.0	(76.2)	Orange	250	Roll
558-00339	558-00339	HT1BU250	1.0	(25.4)	250.0	(76.2)	Blue	250	Roll
558-00341	558-00341	HT2BU250	2.0	(50.8)	250.0	(76.2)	Blue	250	Roll
558-00343	558-00343	HT3BU250	3.0	(76.2)	250.0	(76.2)	Blue	250	Roll
558-00340	558-00340	HT1GN250	1.0	(25.4)	250.0	(76.2)	Green	250	Roll
558-00342	558-00342	HT2GN250	2.0	(50.8)	250.0	(76.2)	Green	250	Roll
558-00344	558-00344	HT3GN250	3.0	(76.2)	250.0	(76.2)	Green	250	Roll
558-00351	558-00351	HT4GN250	4.0	(101.6)	250.0	(76.2)	Green	250	Roll
Banded Colored									
558-00327	558-00327	HT2OE50250	2.0	(50.8)	250.0	(76.2)	Orange	250	Roll
558-00328	558-00328	HT2YE50250	2.0	(50.8)	250.0	(76.2)	Yellow	250	Roll
558-00330	558-00330	HT3OE75250	3.0	(76.2)	250.0	(76.2)	Orange	250	Roll
558-00331	558-00331	HT3YE75250	3.0	(76.2)	250.0	(76.2)	Yellow	250	Roll
558-00333	558-00333	HT4OE10250	4.0	(101.6)	250.0	(76.2)	Orange	250	Roll
558-00334	558-00334	HT4YE10250	4.0	(101.6)	250.0	(76.2)	Yellow	250	Roll

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. Not all items in stock. Contact HellermannTyton for stock status before ordering.

Material Data	
Material Number	1500
Material	Vinyl
Operating Temperatures	-40°F to +180°F (-40°C to +82°C)
Adhesive	Acrylic

Solid Colored

Material Data	
Material Number	336/926
Material	Polyester (PET)
Operating Temperatures	-40°F to +302°F (-40°C to +150°C)
Adhesive	Acrylic

Banded Colored

Pre-Printed Header Labels

For commonly-used safety labels, HellermannTyton offers a line of partially pre-printed signal word labels on rolls. These labels come with pre-printed Danger, Warning, Caution, Notice or Safety headers on the appropriate color background – eliminating the need print in multiple colors. Labels include a blank area for a customized message. Choose from a variety of formats, including options that allow space for printing icons, graphics and pictograms. Use with HellermannTyton's TagPrint® Pro label design software, which includes a wide range of pictograms and icons.

Product Selection

Article No.	Part No.	Type	Description	Width in	Width (mm)	Length in	Length (mm)	Color	Pkg. Qty.	Pkg. Type
596-00992	596-00992	CP270X550	CAUTION Header, Black with Yellow	2.70	68.6	5.50	139.7	Yellow	250	roll
596-00996	596-00996	CP500X350	CAUTION Header, Black with Yellow	5.00	127.0	3.50	88.9	Yellow	250	roll
596-00427	596-00427	4X6CAUTION	CAUTION Header, Black with Yellow	6.00	152.4	4.00	101.6	Yellow	250	roll
596-00993	596-00993	DP270X550	DANGER Header, White with Red	2.70	68.6	5.50	139.7	Red	250	roll
596-00995	596-00995	DP275X500	DANGER Header, White with Red	2.75	69.9	5.00	127.0	Red	250	roll
596-00387	596-00387	DS275X135	DANGER Header, White with Red	2.75	69.9	1.35	34.3	Red	250	roll
596-00424	596-00424	3X2DANGER	DANGER Header, White with Red	3.00	76.2	2.00	50.8	Red	250	roll
596-00397	596-00397	DMLP500X350	DANGER Header, White with Red	5.00	127.0	3.50	88.9	Red	250	roll
596-00389	596-00389	DS55X275	DANGER Header, White with Red	5.50	139.7	2.75	69.9	Red	250	roll
596-00203	596-00203	4X6DANGER	DANGER Header, White with Red	6.00	152.4	4.00	101.6	Red	250	roll
596-00377	596-00377	DV55X275	DANGER Header, White with Red	5.50	139.7	2.75	69.9	Red	250	roll
596-00426	596-00426	3X2NOTICE	NOTICE Header, White with Blue	3.00	76.2	2.00	50.8	Blue	250	roll
596-00204	596-00204	4X6NOTICE	NOTICE Header, White with Blue	6.00	152.4	4.00	101.6	Blue	250	roll
596-00372	596-00372	3X2SAFETY	SAFETY Header, White with Green	3.00	76.2	2.00	50.4	Green	250	roll
596-00371	596-00371	4X6SAFETY	SAFETY Header, White with Green	6.00	152.4	4.00	101.6	Green	250	roll
596-00991	596-00991	WP270X550	WARNING Header, Black with Orange	2.70	68.6	5.50	139.7	Orange	250	roll
596-00994	596-00994	WML275X500	WARNING Header, Black with Orange	2.75	69.9	5.00	127.0	Orange	250	roll

Pre-Printed Header Labels (continued)

Article No.	Part No.	Type	Description	Width in	Width (mm)	Length in	Length (mm)	Color	Pkg. Qty.	Pkg. Type
596-00622	596-00622	3X2WARNING	WARNING Header, Black with Orange	3.00	76.2	2.00	50.8	Orange	250	roll
596-00396	596-00396	WMLP500X350	WARNING Header, Black with Orange	5.00	127.0	3.50	88.9	Orange	250	roll
596-00388	596-00388	WS55X275	WARNING Header, Black with Orange	5.50	139.7	2.75	69.9	Orange	250	roll
596-00621	596-00621	4X6WARNING	WARNING Header, Black with Orange	6.00	152.4	4.00	101.6	Orange	250	roll
596-00378	596-00378	WV275X135	WARNING Header, Orange with Blank Yellow Triangle	2.75	69.9	1.35	34.3	Orange	250	roll
596-00379	596-00379	DV275X135	WARNING Header, Red with Blank Yellow Triangle	2.75	69.9	1.35	34.3	Red	250	roll
596-00386	596-00386	WS275X135	WARNING Header, White with Orange	2.75	69.9	1.35	34.3	Orange	250	roll
596-00376	596-00376	WV55X275	WARNING Header, White with Orange	5.50	139.7	2.75	69.9	Orange	250	roll
596-00425	596-00425	3X2CAUTION	CAUTION Header, Yellow	3.00	76.2	2.00	50.8	Yellow	250	roll
596-00800	596-00800	HL2X2YE	HAZARD Header, Yellow	2.00	50.8	2.00	50.8	Yellow	50	roll
596-00801	596-00801	HL3X3YE	HAZARD Header, Yellow	3.00	76.2	3.00	76.2	Yellow	50	roll

Material Data	
Material Number	336/926
Material	Polyester (PET)
Operating Temperatures	-40°F to +302°F (-40°C to +150°C)
Adhesive	Acrylic

Foam Nameplates

Foam nameplate labels are designed to replace engraved phenolic plates commonly found on control panels in many markets. Labels have a foam base so that they conform to textured surfaces, but still provide a flat printing surface. The material is resistant to chemicals, solvents, heat and UV exposure. HellermannTyton's foam nameplate labels include printable button labels. For use with TagPrint Pro labeling software and HellermannTyton thermal transfer printers.

| Product Selection | | | | Width | | Length | | Mounting Hole Dia. | | | | |
Article No.	Part No.	Type	Description	in	(mm)	in	(mm)	in	(mm)	Color	Pkg. Qty.	Pkg. Type
Emergency Stop Foam Namplate Label												
596-00202	596-00202	NPL60X60YE	Emergency Stop Label	2.38	60.3	2.38	60.3	1.20	30.5	Yellow	100	roll
Foam Button Namplate Labels												
596-00323	596-00323	NPLH31X38GN22.5	Namplate with Button Hole	1.20	30.5	1.50	38.1	0.88	22.4	Green	250	roll
596-00404	596-00404	NPLH31X38WH22.5	Namplate with Button Hole	1.20	30.5	1.50	38.1	0.88	22.4	White	250	roll
596-00405	596-00405	NPLH31X38YE22.5	Namplate with Button Hole	1.20	30.5	1.50	38.1	0.88	22.4	Yellow	250	roll
596-00406	596-00406	NPLH31X38RD22.5	Namplate with Button Hole	1.20	30.5	1.50	38.1	0.88	22.4	Red	250	roll
596-00407	596-00407	NPLH31X38BK22.5	Namplate with Button Hole	1.20	30.5	1.50	38.1	0.88	22.4	Black	250	roll
596-00915	596-00915	NPLH31X48WH22.5	Namplate with Button Hole	1.20	30.5	1.90	30.5	0.88	22.4	White	250	roll
596-00916	596-00916	NPLH31X48BK22.5	Namplate with Button Hole	1.20	30.5	1.90	30.5	0.88	22.4	Black	250	roll
596-00412	596-00412	NPLH31X31WH22.5	Namplate with Button Hole	1.25	31.7	1.25	31.7	0.88	22.4	White	250	roll
596-00413	596-00413	NPLH31X31BK22.5	Namplate with Button Hole	1.25	31.7	1.25	31.7	0.88	22.4	Black	250	roll
596-00414	596-00414	NPLH44X44WH30.5	Namplate with Button Hole	1.75	44.4	1.75	44.4	1.20	30.5	White	250	roll
596-00415	596-00415	NPLH44X44BK30.5	Namplate with Button Hole	1.75	44.4	1.75	44.4	1.20	30.5	Black	250	roll

Foam Nameplates (continued)

Article No.	Part No.	Type	Description	Width in	Width (mm)	Length in	Length (mm)	Mounting Hole Dia. in	Mounting Hole Dia. (mm)	Color	Pkg. Qty.	Pkg. Type
Foam Namplate Labels												
596-00500	596-00500	NPL27X13WH	Rectangular Nameplate	1.06	27.0	0.49	11.4			White	500	roll
596-00503	596-00503	NPL27X13BK	Rectangular Nameplate	1.06	27.0	0.49	11.4			Black	500	roll
596-00504	596-00504	NPL51X25WH	Rectangular Nameplate	2.00	50.8	1.00	25.4	0.88	22.4	White	500	roll
596-00507	596-00507	NPL51X25BK	Rectangular Nameplate	2.00	50.8	1.00	25.4	0.88	22.4	Black	500	roll
596-00417	596-00417	NPL76X101WH	Rectangular Nameplate	3.00	76.2	4.00	101.6			White	150	roll

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. Not all items in stock. Contact HellermannTyton for stock status before ordering.

Material Data	
Material Number	518
Material	Polyester (PET)
Operating Temperatures	-40°F to +176°F (-40°C to + 80°C)
Adhesive	Acrylic

Thermal Transfer Labels

HellermannTyton offers a complete line of thermal transfer printable labels for marking electrical equipment. Use metalized labels as rating plates or short circuit current rating (SCCR) labels on control panels and industrial automation equipment. Terminal block labels are provided in several common widths for use on a wide variety of standard terminal blocks. Pre-formatted phase labels come in strips of three labels, separated by a micro-perforation so that all three labels can be placed on a switchboard or panel as one piece or broken into individual pieces at the perforation for marking individual fuses or breakers.

Product Selection

Article No.	Part No.	Type	Width in	Width (mm)	Length in	Length (mm)	Labels per Row	Color	Pkg. Qty.	Pkg. Type
Thermal Transfer Labels - Silver										
596-80795	TAG80T1-795	TAG80T1	3.00	(76.20)	5.00	(127.00)	1	Silver	500	Roll
596-79795	TAG79T1-795	TAG79T1	4.00	(101.60)	2.00	(50.80)	1	Silver	500	Roll
596-78795	TAG78T1-795	TAG78T1	3.00	(76.20)	4.00	(101.60)	1	Silver	500	Roll
596-72795	TAG72T1-795	TAG72T1	2.75	(69.85)	1.25	(31.75)	1	Silver	3000	Roll
596-73795	TAG73T1-795	TAG73T1	2.00	(50.80)	1.00	(25.40)	1	Silver	3000	Roll
596-76795	TAG76T1-795	TAG76T1	2.50	(63.50)	2.00	(50.80)	1	Silver	1000	Roll
596-27795	TAG27T1-795	TAG27T1	1.50	(38.11)	0.75	(19.05)	1	Silver	3000	Roll
596-75795	TAG75T1-795	TAG75T1	2.00	(50.80)	0.625	(15.87)	1	Silver	2000	Roll
596-15795	TAG15T3-795	TAG15T3	1.00	(25.40)	0.50	(12.70)	3	Silver	10000	Roll
Thermal Transfer Labels - White										
596-73833	596-73833	PCP2X1	2.00	(50.8)	1.0	(25.4)	1	White	3000	Roll
596-73834	596-73834	PCP3X1	3.00	(76.20)	1.0	(25.4)	1	White	3000	Roll
596-73835	596-73835	PCP4X3	4.00	(101.60)	3.0	(76.2)	1	White	1000	Roll
Phase Labels										
596-00382	596-00382	PLW3P	1.0	(25.4)	0.5	(12.7)	3	White	2500	Roll
596-00383	596-00383	PLB3P	1.0	(25.4)	0.5	(12.7)	3	Black	2500	Roll

Thermal Transfer Labels (continued)

Product Selection			Width		Length		Labels per Row	Color	Pkg. Qty.	Pkg. Type
Article No.	**Part No.**	**Type**	**in**	**(mm)**	**in**	**(mm)**			**ft**	
Terminal Block Continuous Rolls										
596-00380	596-00380	TBL375	0.375	(9.52)	100.0	(30.48)	1	White	100	Roll
596-00381	596-00381	TBL500	0.50	(12.70)	100.0	(30.48)	1	White	100	Roll

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. Not all items in stock. Contact HellermannTyton for stock status before ordering.

Material Data

Material Number	795
Material	Type 795, Polyester, Silver Matt (SR)
Operating Temperatures	-40°F to +300°F (-40°C to + 149°C)
Adhesive	Acrylic

Thermal Transfer Labels - Silver

Material Data

Material Number	840W
Material	Type 840, Polyester, White (WH)
Operating Temperatures	-40°F to +300°F (-40°C to + 149°C)
Adhesive	High Bond Acrylic

Thermal Transfer Labels - White

Material Data

Material Number	336
Material	Polyester (PET)
Operating Temperatures	-40°F to +300 °F (-40 °C to + 149 °C)
Adhesive	Acrylic

Phase Labels

Material Data

Material Number	395
Material	Polyethylene (PE)
Operating Temperatures	-40°F to +176°F (-40°C to + 80°C)
Adhesive	Rubber

Terminal Block Continuous Rolls

ShrinkTrak

HellermannTyton's ShrinkTrak heat shrinkable labels make it easy to mark wire, cable and other components. This military approved heat shrink tubing is flattened and assembled in a ladder-style carrier system for easy printing using a thermal transfer printer. The ladder system creates a kit of markers that can be sorted, removed and applied in any order, saving time, labor and speeding production.

Product Selection

Article No.	Part No.	Type	Width		Length		Center Split	Color	Pkg. Qty.	Pkg. Type
			in	(mm)	in	(mm)				
0.125″ (3.14mm) Outside Diameter										
553-50002	553-50002	HST3-1WH	1.90	(48.3)	0.235	(5.97)	–	White	250	Roll
553-50004	553-50004	HST3-1WH-S	0.95	(24.0)	0.235	(5.97)	Single	White	500	Roll
553-50005	553-50005	HST3-1YE	1.90	(48.3)	0.235	(5.97)	–	Yellow	250	Roll
553-50007	553-50007	HST3-1YE-S	0.95	(24.0)	0.235	(5.97)	Single	Yellow	500	Roll
0.187″ (4.74mm) Outside Diameter										
553-50009	553-50009	HST4.8-1.6WH	1.90	(48.3)	0.312	(7.9)	–	White	250	Roll
553-50011	553-50011	HST4.8-1.6WH-S	0.95	(24.0)	0.312	(7.9)	Single	White	500	Roll
553-50012	553-50012	HST4.8-1.6YE	1.90	(48.3)	0.312	(7.9)	–	Yellow	250	Roll
553-50014	553-50014	HST4.8-1.6YE-S	0.95	(24.0)	0.312	(7.9)	Single	Yellow	500	Roll
0.250″ (6.35mm) Outside Diameter										
553-50016	553-50016	HST6-2WH	1.90	(48.3)	0.42	(10.67)	-	White	250	Roll
553-50019	553-50019	HST6-2WH-S	0.95	(24.0)	0.42	(10.67)	Single	White	500	Roll
553-50020	553-50020	HST6-2YE	1.90	(48.3)	0.42	(10.67)	-	Yellow	250	Roll
553-50022	553-50022	HST6-2YE-S	0.95	(24.0)	0.42	(10.67)	Single	Yellow	500	Roll
0.375″ (9.52mm) Outside Diameter										
553-50024	553-50024	HST9-3WH	1.90	(48.3)	0.597	(15.16)	–	White	250	Roll
553-50025	553-50025	HST9-3WH-S	0.95	(24.0)	0.597	(15.16)	Single	White	500	Roll
553-50026	553-50026	HST9-3YE	1.90	(48.3)	0.597	(15.16)	–	Yellow	250	Roll
553-50027	553-50027	HST9-3YE-S	0.95	(24.0)	0.597	(15.16)	Single	Yellow	500	Roll

ShrinkTrak (continued)

0.500″ (12.70mm) Outside Diameter

553-50029	553-50029	HST12-4WH	1.90	(48.3)	0.77	(19.55)	–	White	250	Roll
553-50030	553-50030	HST12-4WH-S	0.95	(24.0)	0.77	(19.55)	Single	White	500	Roll
553-50031	553-50031	HST12-4YE	1.90	(48.3)	0.77	(19.55)	–	Yellow	250	Roll
553-50032	553-50032	HST12-4YE-S	0.95	(24.0)	0.77	(19.55)	Single	Yellow	500	Roll

0.750″ (19.00mm) Outside Diameter

553-50034	553-50034	HST18-6WH	1.90	(48.3)	1.2	(30.48)	–	White	250	Roll
553-50035	553-50035	HST18-6WH-S	0.95	(24.0)	1.2	(30.48)	Single	White	500	Roll
553-50036	553-50036	HST18-6YE	1.90	(48.3)	1.2	(30.48)	–	Yellow	250	Roll
553-50037	553-50037	HST18-6YE-S	0.95	(24.0)	1.2	(30.48)	Single	Yellow	500	Roll

1.000″ (25.40mm) Outside Diameter

553-50039	553-50039	HST24-8WH	1.90	(48.3)	1.69	(42.93)	-	White	250	Roll
553-50040	553-50040	HST24-8WH-S	0.95	(24.0)	1.69	(42.93)	Single	White	500	Roll
553-50041	553-50041	HST24-8YE	1.90	(48.3)	1.69	(42.93)	-	Yellow	250	Roll
553-50042	553-50042	HST24-8YE-S	0.95	(24.0)	1.69	(42.93)	Single	Yellow	500	Roll

1.500″ (38.10mm) Outside Diameter

553-50209	553-50209	HST39-13WH	1.90	(48.30)	2.26	(57.4)	–	White	150	Roll
553-50226	553-50226	HFST39-13WH-S	0.95	(24.13)	2.26	(57.4)	Single	White	300	Roll
553-50225	553-50225	HFST39-13YE	1.90	(48.30)	2.26	(57.4)	–	Yellow	150	Roll
553-50227	553-50227	HFST39-13YE-S	0.95	(24.13)	2.26	(57.4)	Single	Yellow	300	Roll

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. Not all items in stock. Contact HellermannTyton for stock status before ordering.

Material Data	
Material	Polyolefin, Cross-linked (PO-X)
Operating Temperatures	-67°F to +275°F (-55°C to +135°C)
Flammability	UL224 VW-1

Plastic Nameplates

HellermannTyton plastic nameplates are made of polycarbonate that is rated to UL94VO for flame retardancy. Plastic nameplates can be mechanically mounted, and include a clear polycarbonate cover that protects the printed text. Designed for longterm durability, plastic nameplates still allow individual customization, on demand. Available in classic nameplate and button designs, they are excellent for use on industrial automation equipment, industrial control panels as well as electrical boxes, push button stations or anything that requires longterm identification.

Product Selection

Article No.	Part No.	Type	Description	Width in	Width (mm)	Height in	Height (mm)	Mounting Hole Ø in	Mounting Hole Ø (mm)	Color	Pkg. Qty.	Pkg. Type
Plastic Button Nameplate Bases												
596-00189	596-00189	PTSA-22	Plastic Button Base, With Locators	1.12	(28.0)	1.87	(47.0)	0.88	(22.35)	Black	100	Pack
596-00190	596-00190	PTOA-22	Plastic Button Base, Without Locators	1.12	(28.0)	1.87	(47.0)	0.88	(22.35)	Black	100	Pack
White Inserts												
596-00418	596-00418	WPL15X27	Insert For 596-00189, 596-00190, 596-00191	1.06	(27.0)	0.59	(15.0)	-		White	360	Pack
596-00419	596-00419	WPL15X49	Insert For 596-00192	1.92	(49.0)	0.59	(15.0)	-		White	180	Pack
596-00420	596-00420	WPL15X67	Insert For 596-00193	2.63	(67.0)	0.59	(15.0)	-		White	90	Pack
Labels For Use On Inserts												
596-00184	596-00184	NPL25X13	For Use On White Insert 596-00418	1.00	(25.4)	0.5	(12.7)	-		White	500	Roll
596-00185	596-00185	NPL47X13	For Use On White Insert 596-00419	1.85	(46.9)	0.5	(12.7)	-		White	500	Roll
596-00183	596-00183	NPL63X13	For Use On White Insert 596-00420	2.50	(63.5)	0.5	(12.7)	-		White	500	Roll
Clear (Transparent) Covers												
596-00194	596-00194	TC15X27	Insert For 596-00189, 596-00190, 596-00191	1.06	(27.0)	0.59	(15.0)	-		Transparent	360	Pack
596-00195	596-00195	TC15X49	Insert For 596-00192	1.92	(49.0)	0.59	(15.0)	-		Transparent	180	Pack
596-00196	596-00196	TC15X67	Insert For 596-00193	2.63	(67.0)	0.59	(15.0)	-		Transparent	90	Pack

Plastic Nameplates (continued)

Plastic Nameplate Bases (Rectangles)

596-00191	596-00191	LB15X27	Plastic Rectangular Legend Base	1.06 (27.0)	0.59 (15.0)	-	Black	100	Pack
596-00192	596-00192	LB15X49	Plastic Rectangular Legend Base	1.92 (49.0)	0.59 (15.0)	-	Black	100	Pack
596-00193	596-00193	LB15X67	Plastic Rectangular Legend Base	2.63 (67.0)	0.59 (15.0)	-	Black	100	Pack

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Material Data

Material	Polycarbonate (PC)
Operating Temperatures	-22°F to +266°F (-30°C to + 130°C)
Adhesive	Acrylic
Flammability	UL94 V0

Plastic Button Nameplate Bases, White Inserts, Clear (Transparent) Covers

Material Data

Material Number	336
Material	Polyester (PET)
Operating Temperatures	-40°F to +302°F (-40°C to +150°C)
Adhesive	Acrylic

Labels For Use On Inserts, Plastic Button Nameplate Bases, Plastic Nameplate Bases (Rectangles)

TagPrint Pro®

TagPrint Pro 4.0 is a revolution in simplicity, in design and ease of use. The advanced feature set is easy to navigate, and comes with a wide range of pre-saved label designs for the most common Danger, Warning, Caution, Notice and other labels required by codes and standards. Simply select the label type you required, open the file and you can add text, make simple edits and changes and then print to any thermal transfer printer. TagPrint Pro makes it easy to meet required NEC, NFPA, ANSI and OSHA labeling standards and requirements.

Product Selection

Article No.	Part No.	Type	Short Description	Pkg. Type
556-00035	556-00035	TAGPRINT3	TagPrint Pro 4.0, Label Printing Software, Single User License	1
556-00036	556-00036	TAGPRINT3LIC	TagPrint Pro 4.0, Label Printing Software, 3 License Network Program	1
556-00037	556-00037	TAGPRINT5LIC	TagPrint Pro 4.0, Label Printing Software, 5 License Network Program	1
556-00038	556-00038	TAGPRINT10LIC	TagPrint Pro 4.0, Label Printing Software, 10 License Network Program	1
556-00039	556-00039	TAGPRINT25LIC	TagPrint Pro 4.0, Label Printing Software, 25 License Network Program	1

Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes. Not all items in stock. Contact HellermannTyton for stock status before ordering.

HellermannTyton

This field guide is intended to be a label design and code reference tool. HellermannTyton makes no claim or guarantee that the end user will meet industry codes and standards. HellermannTyton is not responsible for worker injuries related to the use of HellermannTyton label formats. The user is responsible to research all code requirements prior to installation of any labeling that can affect equipment or worker safety. Labels shown are not to scale and are representations only.

[1] Workplace Injury and Illness Summary, 2012, 11/7/2013, US Bureau of Labor Statistics, www.bls.gov   [2] Census of Fatal Occupational Injuries Summary, 2012, 8/22/2013, Bureau of Labor Statistics, www.bls.gov   [3] Safety and Health Topics: Costs, www.osha.gov/dcsp/products/topics/businesscase/costs   [4] "What Does a Workplace Injury Cost?" Direct and Indirect Costs and Their Affect to the Bottom Line, 2011, www.fit2wrk.com