

Document Code: TECH-LABELING-GUIDE-SYSKIT

Version: 1.0

Prepared By: SystemShield Engineering & Quality Control

Release Date: July 30, 2025

SYSTEMSHIELD™ LABELING GUIDELINES – WIRES, BUS BARS, AND COMPLETE KITS

PURPOSE

This document provides official guidelines on the identification and labeling of SystemShield™ components for traceability, inspection visibility, and on-site organization. While the kit does not ship with pre-labeled wires, these instructions define how end-users, inspectors, or facility managers can implement clear labeling practices during installation.

SECTION 1 – WIRE IDENTIFICATION (FIELD OPTIONAL)

SystemShield kits ship with pre-stripped and pre-crimped wires that are **not pre-labeled** by default. However, installers may label wires per facility requirements.

Recommended Field Label Format:

- GND-PNL- [#] (e.g., GND-PNL-01 for a panel ground)
- CHASSIS-GND-A, CHASSIS-GND-B (for multiple rack terminations)
- Use weatherproof wraparound or heat shrink labels if permanent marking is required

Best Practices:

- Apply labels near the lug termination
 - Use consistent alphanumeric formatting
 - Match labels to circuit ID or grounding drawing if available
 - Avoid obstructing crimped barrel or inspection window
-

SECTION 2 – TERMINAL BUS BAR LABELING

SystemShield terminal bus bars ship **unbranded** and without printed identifiers. Field-applied labeling is optional but encouraged in panel environments.

Recommended Labeling:

- Vinyl adhesive label applied to plastic housing or mounting panel near the bus bar
- Example label: MAIN GROUND BUS (SYS-KIT-STD-12G6G)
- Label can include date of installation or circuit reference

Use Cases:

- Panels with multiple grounding bars
- Facilities requiring traceable label records for asset tracking
- Inspector visibility for NEC 250.92 and UL panel builds

SECTION 3 – KIT IDENTIFICATION AND CARTON LABELS

Each SystemShield™ kit is labeled with the following printed identifiers on outer packaging:

- Product SKU: SYS-KIT-STD-12G6G
- UPC (GTIN-12): 012345678905
- Lot or Build Date Code (optional field printed for internal use)
- Website and email contact

Carton Label Placement:

- Upper-right front of mailer or box lid
- Optional duplicate label on kit interior for field retention

LABEL FORMATS & MATERIALS

Label Type	Recommended Format	Material
Wire labels	Heat shrink, wraparound, or tape-based ID	PVC or polyolefin, black on white
Bus bar area labels	Printed adhesive strip	Vinyl or polyester, UL-recognized
Carton label	Pre-printed at factory	Thermal or digital print, permanent adhesive

Note: SystemShield does not currently include serialized barcode labels or scannable tags. These may be added upon request for OEM or enterprise clients.

SUPPORTING COMPLIANCE

Proper labeling supports:

- NEC Article 110.22(B) (Identification of equipment grounding terminals)
 - OSHA lockout/tagout traceability
 - UL panel builder program documentation
 - Field audits and maintenance inspections
-

SUPPORT & CUSTOMIZATION

For label template files, customization requests, or labeling support for distributors:

Email: systemshieldgrounding@gmail.com

Website: www.systemshield.tech

Portal Access: <https://systemshield.tech/distributor-access>