



## Wire Harness Solutions

Productivity, Performance, and Safety  
that Maximize Operational Costs

ORGANIZE • CONNECT • PROTECT

**PANDUIT**<sup>®</sup>  
infrastructure for a connected world

A man in a light blue button-down shirt is looking down at a tablet computer. He is in a server room, with server racks and cables visible in the background. The image has a grid overlay in the top right corner.

## Reduce costs with expertly-engineered wire harness assembly products and tools

**With proven cost-containment approaches, technical support and global availability of products, Panduit® will work with you to reduce wire harness assembly time.**

Manufacturing has never been more connected – or more complex. And as wiring infrastructures grow, so do your customers' expectations.

Your challenge is to increase productivity, while exceeding your customers' requirements, enabling you to grow profitably.

Panduit helps customers organize, connect and protect wires and cable – for optimum performance. With Panduit as a partner, you'll have an entire team of professionals working for you – from technical and engineering specialists to local product support representatives.

Turn to Panduit as your partner in support of your wire harness manufacturing processes.

**“Converting to Panduit terminals was a seamless transition. Panduit went the extra mile to deliver a high level of service, providing the added value our equipment manufacturers are looking for in a wire harness.”**

**Mike McAllister, Materials Manager, Timberline Manufacturing Company**

# Wire Harness Solutions: We're wired for the way you work.

## When you harness the ingenuity of Panduit®, you tap into a 60-year legacy of leadership in wire management.

And we've never stopped improving, advancing or reinventing our products to reflect your daily business challenges.



**Be more competitive.** Automating process to increase speed keeps you a step ahead! Panduit wire harness solutions feature design, material and application innovations that add value to your product.



**Be more productive.** Maximize uptime, reduce costs and meet production deadlines with readily available products, and application tooling engineered for ease of assembly and maintenance.



**Be more profitable.** Panduit designs cost-effective solutions that meet your unique application needs, saving you time and driving cost out of your process.



**Be more prepared.** Flexibility is key to meeting your customers' changing needs. Panduit stays abreast of the latest regulatory changes by participating in industry associations and regulatory bodies. By working with Panduit, you can be confident that you meet today's requirements and are ready for tomorrow's growth.

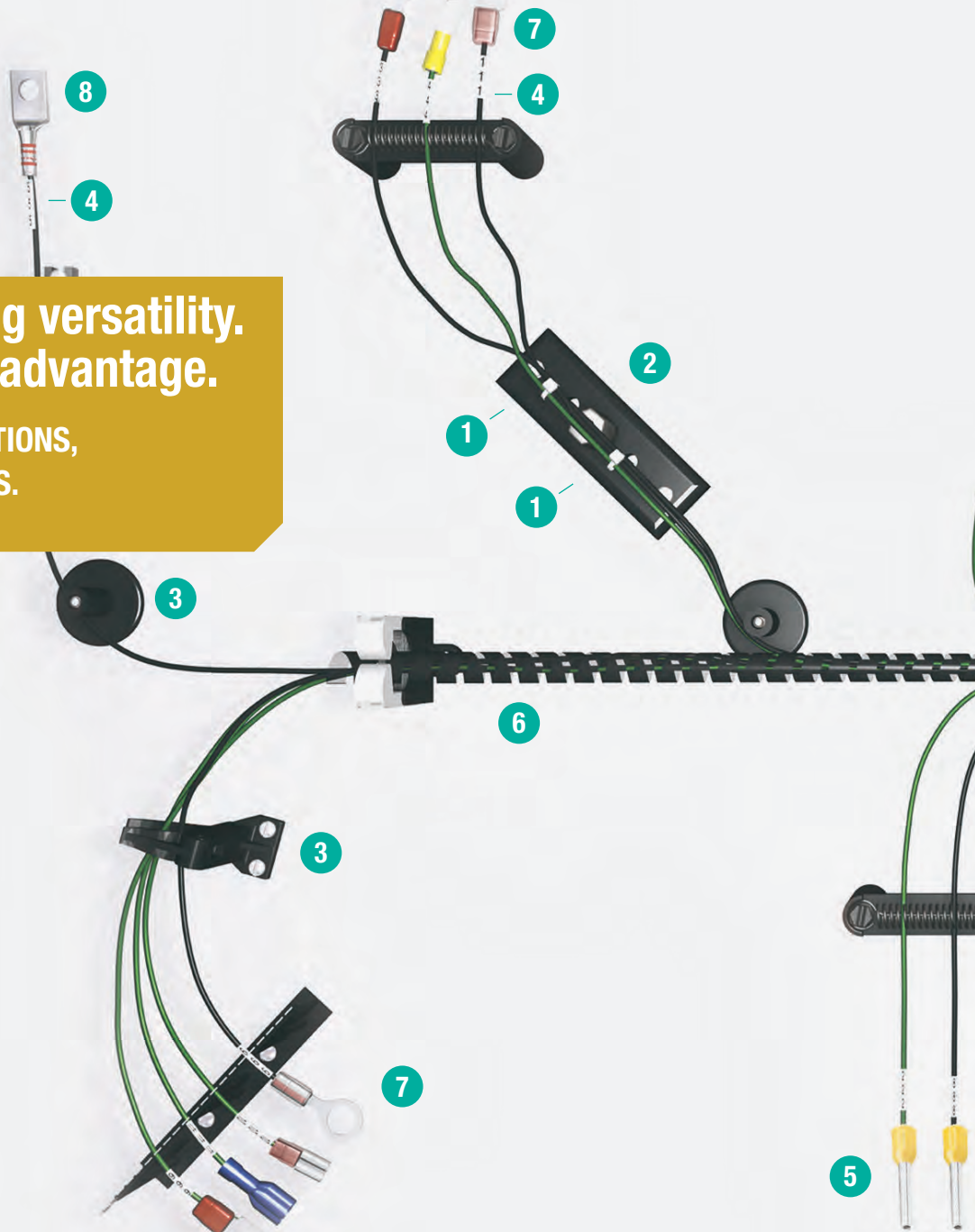
### ∴ Productivity = Profitability

Panduit wire harness products are designed with productivity in mind, allowing for quick development and assembly.



**Our engineering versatility.  
Your business advantage.**

**WIRE HARNESS SOLUTIONS,  
TOOLS AND PRODUCTS.**



**1. Cable Ties and Tools**

A wide selection of industry approved styles, sizes, materials, and colors plus ergonomic hand tools that provide consistent tensioning results.



**2. Cable Tie Mounts**

Secure quickly and easily with a broad selection of styles for installation flexibility.



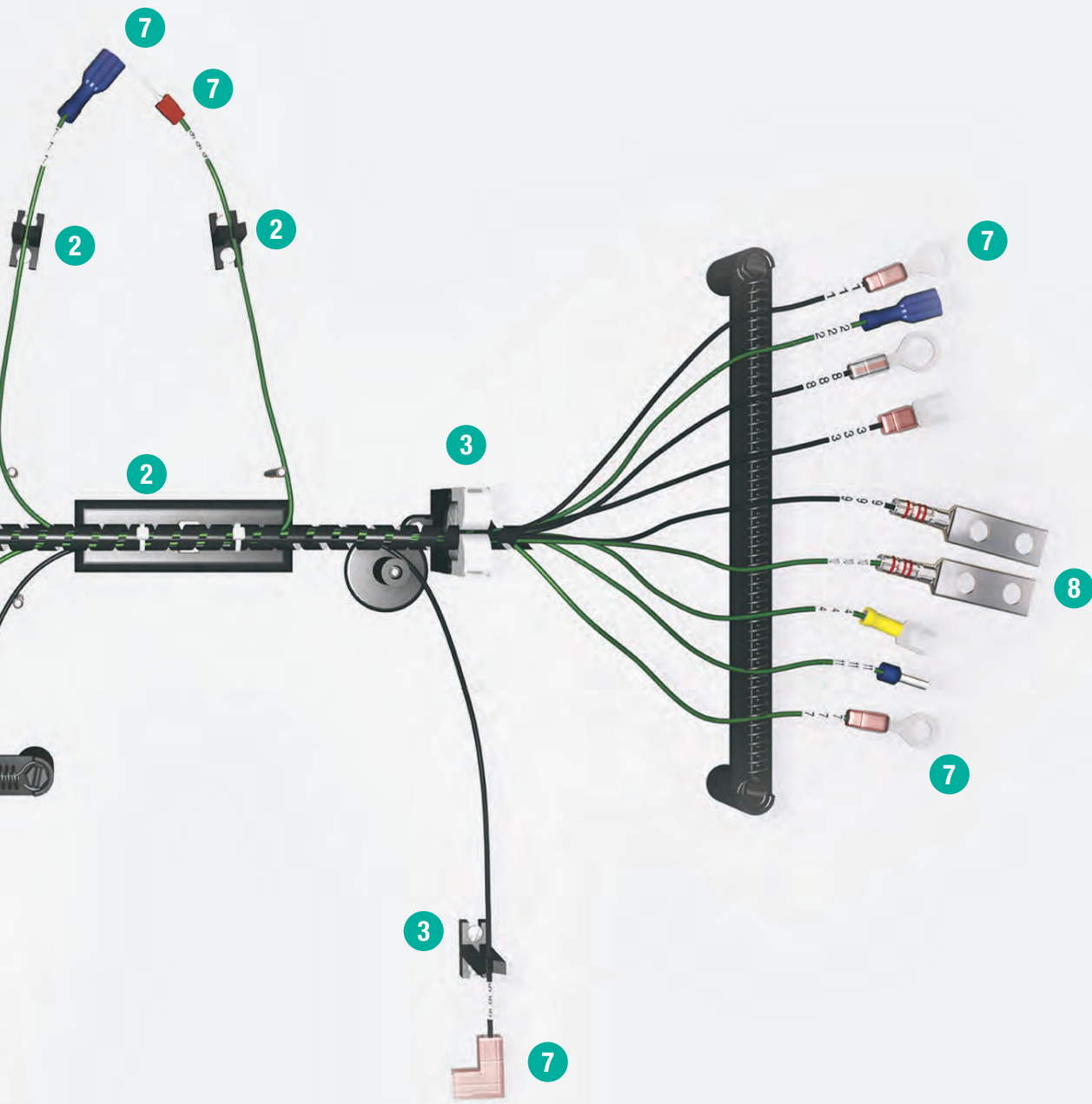
**3. Wire Harness Fixtures**

Spacing the wire bundle at a uniform distance and height from the harness board allows easy cable tie application using manual or automatic tooling.



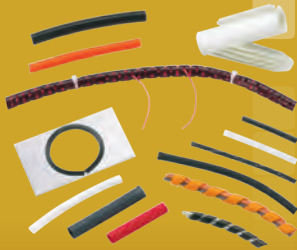
**4. Identification Solutions**

Printers, media and software provide a fast and easy way to create labels in compliance with industry standards for product identification and quality.



### 5. Ferrules

Bare and covered ferrules for use in accordance with UL 486F and Canadian Electrical Code, CSA-C22.2 No. 291-14.



### 6. Abrasion Protection

Spiral wrap, heat shrink and grommet edging products insulate and protect wiring in demanding environments.



### 7. Terminals

Lightweight and durable for ease of use and long life. Terminal tools provide reliable crimps and easy installation to save time.



### 8. Compression Connectors

A variety of imperial and metric connectors meet your application needs. Hand tools and power tools are designed to reduce labor time and cost.



Automatic Cable Tie Installations Systems and Reel-Fed Cable Ties are engineered for high-volume efficiency and operator ease

Minimize installed costs and boost profits with automatic cable tie installation systems.

## Automatic Cable Tie Installation System

Harness builders turn to Panduit® automatic cable tie installation systems for an efficient, all-in-one process. You'll streamline cable tie installation, increasing productivity.

Reel-fed cable ties are fully encapsulated to ensure the ties are not damaged by fixtures or nails on the harness board to prevent downtime.

When assemblers use Panduit continuous, reel-fed cable ties, they spend less time changing reels—and more time building harnesses.



- Reduce reel-change downtime with the Panduit continuous, reel-fed cable ties

**6X FASTER**  
than conventional cable tie installation systems

**LESS THAN 1 SECOND**  
Wrap, tension and cut cable ties in less than 1 second



**Faster set-ups.  
Less downtime and rework.**

## **Automated Termination System**

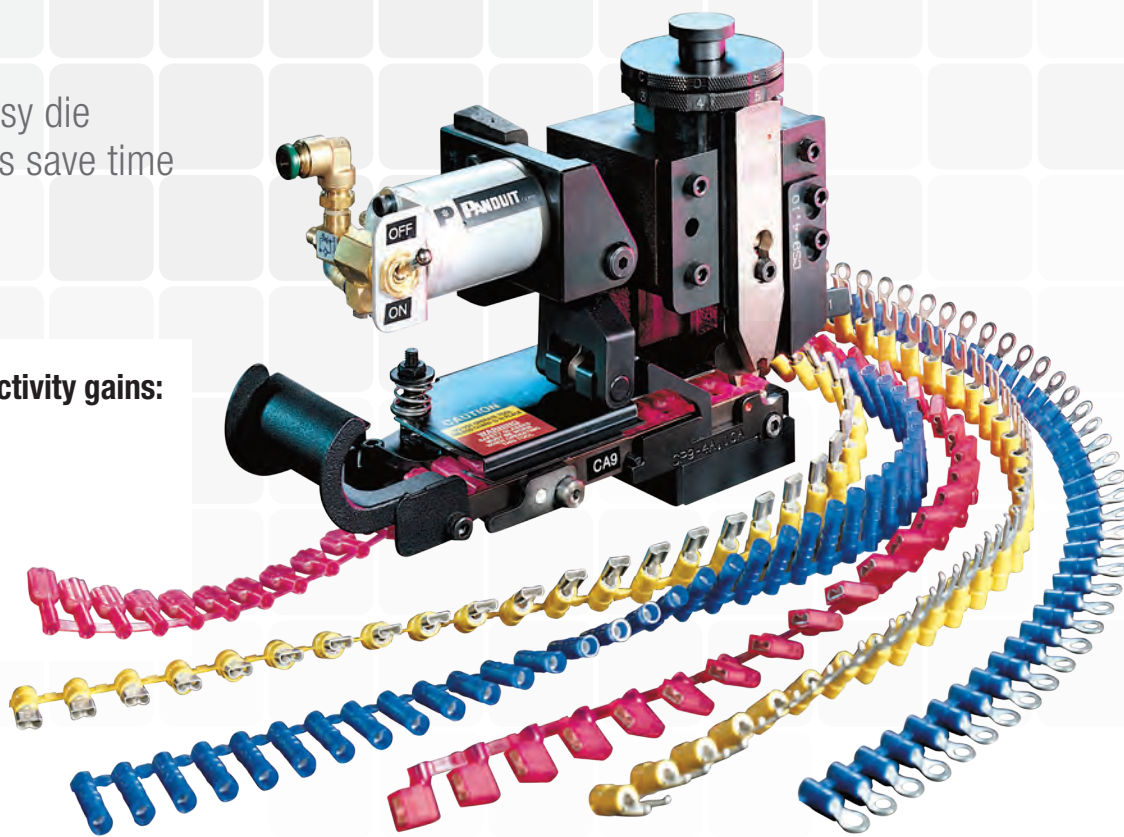
In less than one second, the Automated Termination System speeds the process of indexing and crimping connectors. Result: consistent quality terminations with less need for reworking. Continuously molded carrier strip guarantees alignment in applicator, assuring proper location consistency.

Choose from a wide selection of molded disconnects, splices, rings, forks, pins, and ferrules on reels that work with our automated tools.

- ⚡ Fast and easy die changeovers save time

**Measure your productivity gains:**

**6X  
FASTER  
than manual  
termination.**



# Panduit® supports all of your wire harnessing needs



## Manual and Pneumatic Cable Tie Installation Tools

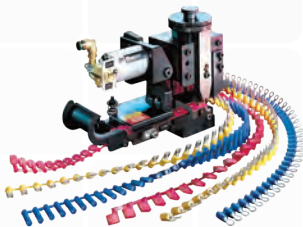
- Lightweight, ergonomic tools that are easy to use and reduce operator fatigue
- Tool controlled tension that provides flush cut-off and speeds installation



## Automated Cable Tie System

The Panduit PAT 4.0 Automatic Cable Tie Installation System drives wire harness productivity through:

- Industry-leading cycle times
- User-friendly, icon-based LCD touch screen that simplifies operation and troubleshooting
- Lightweight, ergonomic tool heads reduce fatigue while maximizing maneuverability



## Automated Termination System

The Panduit Reel Smart™ System includes continuously molded reel and strip ferrules and tooling options, which combine to:

- Speed the process of indexing and crimping connectors
- Ensure consistent quality terminations
- Minimize installed cost and boost profits



## Harness Board System and Fixtures

The Quick-Build™ System is a modular way to build harness boards using reusable grid tiles and mounting pegs that allow:

- Fast routing and forming of wires in harness fabrication speed wire assembly
- Elevation of wires off the harness board at a uniform height to support easy application of cable ties



## Labeling and Identification Solutions

Panduit labels, desktop and hand-held printers, and Easy-Mark™ Plus Labeling Software help ensure:

- Proper wire harness identification
- Improved quality assurance
- Compliance with industry standards

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