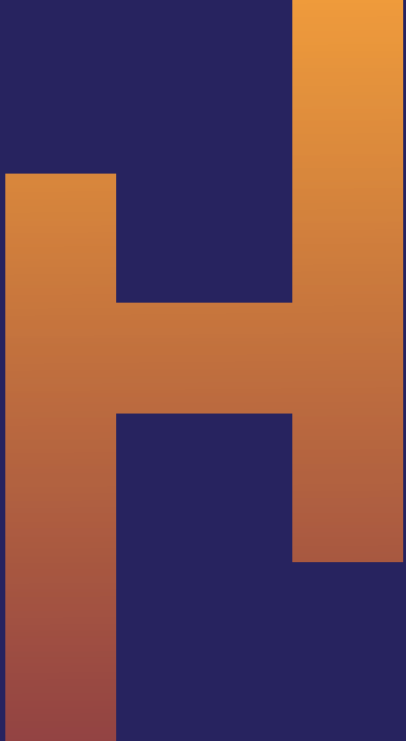




Capability Statement

Reliable, High-Performance Wiring Harnesses.
Custom-engineered for OEMs, Transport,
Telecommunications, & Heavy Equipment.

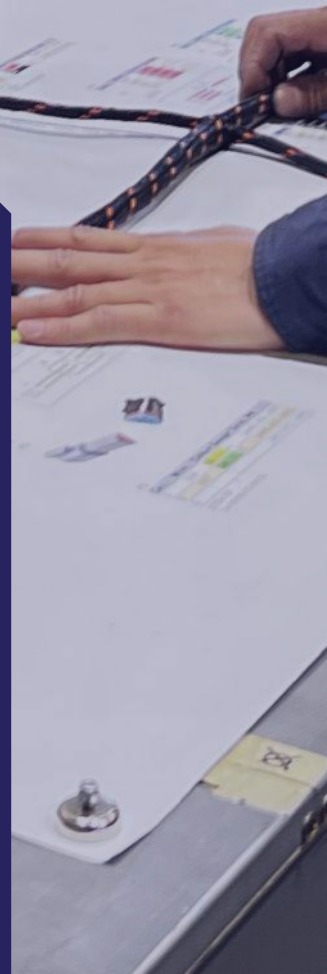
Product Design > Manufacturer > Installation



Wiring Harness Solutions. Built for Industry.

Harness Solutions Australia is an Australian-owned provider of custom wiring harnesses, proudly supporting industries including mining, transport, agriculture, marine, defence and OEM manufacturing.

We design, manufacture and install high-performance harnesses built to withstand demanding environments, enhancing equipment reliability, efficiency and integration across critical applications. With in-house engineering expertise and a collaborative, solution-focused approach, we deliver tailored harness systems that meet precise requirements and stand up to real-world conditions. Whether on a vehicle or fixed plant, we provide wiring solutions that power performance.



Why We Started

Harness Solutions Australia was founded to solve a growing problem in the market: long lead times and unreliable wiring systems impacting critical industries.

With a focus on local manufacturing, quality control and responsive service, we set out to deliver dependable, high-performance wiring harnesses built for the real demands of Australian industries.



Strategic Advantages of Partnering with Us

At Harness Solutions Australia, we combine technical expertise with local manufacturing to deliver dependable, industry-ready wiring harness solutions. Our end-to-end capability and collaborative approach make us a trusted partner for businesses looking to reduce risk, streamline installation, and improve equipment reliability.

Complete Wiring Harness Capability

Our Harness Solutions team manages every stage in-house, from design and engineering to manufacturing and installation, providing a streamlined service that reduces complexity and improves turnaround times.

Fast, Reliable Delivery Australia-Wide

Based in Western Australia, we're well-positioned to service clients across the country quickly. Our local manufacturing model ensures shorter lead times and responsive support.

Cost-Efficient Solutions

By keeping production under one roof, we maintain control over quality and cost to deliver solutions that help our clients reduce downtime, minimise maintenance and add long-term value to their operations.

Proven Quality and Performance

We use high-quality materials and vigorous testing processes to produce wiring harnesses that meet and exceed industry standards for reliability and durability.

Tailored for Your Industry

No two operations are the same, which is why we create customised harness systems designed to meet the specific needs of sectors like mining, agriculture, transport, defence, and more.

Local Expertise You Can Trust

Our skilled team is trained in the latest engineering and manufacturing techniques, ensuring every product is built with precision and delivered with care.

Industries We Serve

Harness Solutions Australia proudly supports a wide range of industries with tailored wiring solutions built to meet sector-specific challenges. Whether for heavy equipment, transport fleets, communications systems or defence assets, our harnesses are engineered for reliability, safety and seamless integration.

● Mining

Harnesses are designed for durability, vibration resistance, and harsh, remote conditions, supporting mobile plants, haulage vehicles, and site infrastructure.

● Transport & Logistics

Wiring systems for trucks, trailers, and support equipment, engineered to reduce failure rates and withstand daily wear and movement.

● Agriculture

Reliable electrical solutions for agricultural machinery of all sizes, built to perform in diverse climates and rugged terrain.

● Marine

Corrosion-resistant harnesses for vessels and marine infrastructure, built to handle moisture, salt exposure and harsh coastal environments.

● Defence

Customised, secure harness systems that meet compliance and reliability requirements for military-grade applications.

● Telecommunications

Precision harnesses for fixed and mobile communications systems, including autonomous haulage kits and rapid deployment units.

● OEM & Equipment Manufacturers

Electrical harnesses engineered to fit seamlessly into proprietary products and equipment, from concept design to final integration.

● Heavy Equipment Maintenance

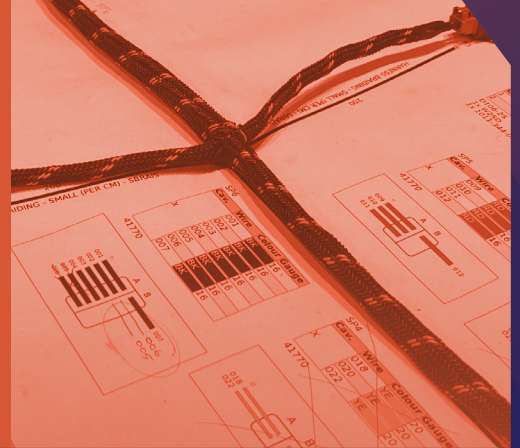
Upgrades, replacements and installation support for existing machinery, helping extend asset life and minimise downtime.

Built Around Your Operation

We offer a complete wiring harness solution that is designed with you and built for purpose.

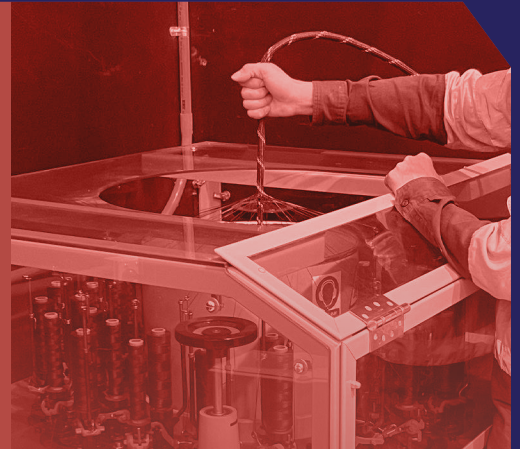
PRODUCT DESIGN

**Consult
Design
Detailed Drawings**



MANUFACTURER

**Manufacture
Quality Control**



INSTALLATION

**Delivery
Installation**





1. Listen & Understand

We begin with consultation—taking the time to understand your objectives, equipment, and operational requirements.



2. Custom Design

Our in-house team develops tailored harness solutions that integrate with your systems and deliver reliable performance.



3. Precision Manufacturing

Harnesses are produced in our WA facility using industry-proven materials, processes, and quality checks.



4. Direct Delivery

Finished products are shipped to your site with clear communication and responsive support throughout.



5. On-Site Installation

For a fully integrated solution, our technicians can install harnesses on your vehicles or fixed equipment anywhere in Australia.

Consulting & Engineering

Harness Solutions Australia provides end-to-end consulting and engineering support across electrical, mechanical, and mechatronic disciplines. We collaborate closely with clients to identify technical challenges, improve system design, and ensure smooth implementation from planning through to project delivery.

Whether you're developing a new product, upgrading existing systems, or auditing technology performance, our team delivers expert insight and practical solutions aligned to your operational needs.



Core Capabilities



Specialist Engineering & Project Consulting

Tailored advice and technical expertise to support efficient, compliant, and high-performing system outcomes.



Technology Planning & Implementation

Strategic analysis, device selection, stakeholder engagement and project rollout support for new or upgraded systems.



Documentation & Auditing

Clear, compliant installation and commissioning documentation, handover packs, and site audits to support transparency and lifecycle planning.



In-House Engineering Expertise

Electrical, mechanical and mechatronic engineers work together to solve complex challenges, adapt existing products or develop entirely new solutions.



Reverse Engineering & Custom Design

We can work with existing equipment or drawings to create fit-for-purpose harness solutions or refine legacy systems for modern requirements.

Custom Wiring Harnesses

At Harness Solutions Australia we specialise in the design and manufacture of custom wiring harnesses built for complex electrical systems across heavy industry, OEMs, transport, telecommunications, and more.

We engineer each harness to suit its environment, selecting the most durable materials, protective sleeves, and layouts to ensure reliable performance and long service life in demanding conditions.

Core Capabilities



Industry-Specific Design

Harnesses tailored to suit the mechanical and electrical requirements of mining, transport, telecoms, marine, defence and more.



Fit-for-Environment Construction

Built to withstand heat, vibration, moisture, and dust, our harnesses are assembled using trusted industry-grade plugs, cables, and protective materials.



Full In-House Process

From initial drawings through to on-site installation, all work is handled in-house to ensure consistent quality, faster lead times, and responsive service.



Short Lead Times

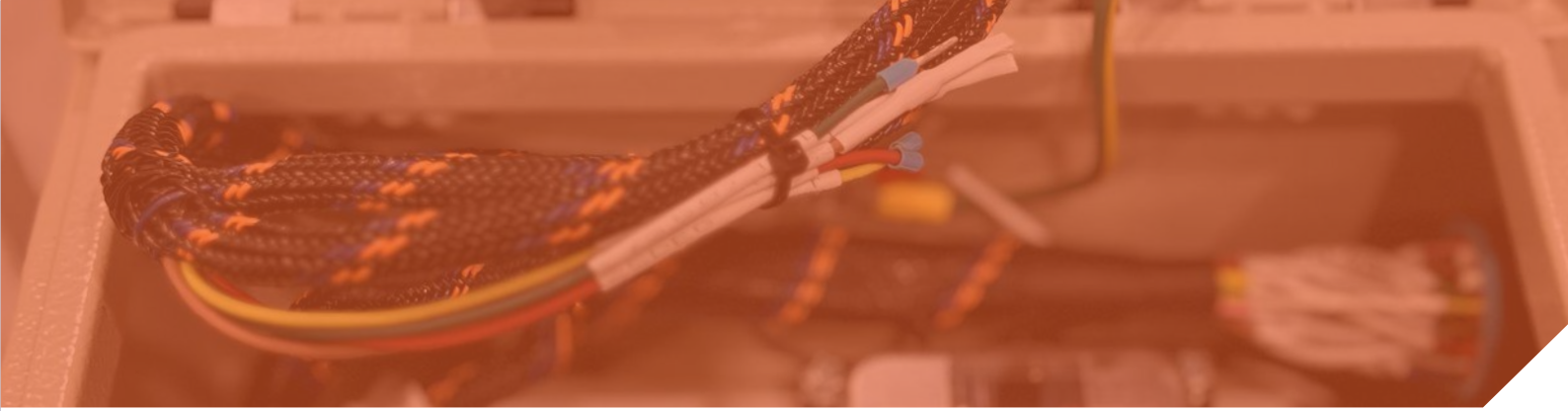
Thanks to our Perth-based workshop, we can typically turn around custom harnesses within 2–4 weeks without compromising on quality.



Transparent Communication

We keep our clients informed at every stage of the delivery process, with clear timelines, design approvals, and updates throughout.





Wiring Harness Engineering

Our wiring harness engineering service goes beyond standard manufacturing. We work closely with clients to solve technical challenges, develop new harness systems or adapt existing designs for improved performance, safety and efficiency.

With full in-house capability across electrical, mechanical and mechatronic disciplines, our team provides the flexibility and precision needed to support specialised projects across mining, transport, OEM, and infrastructure applications.

Core Capabilities



Reverse Engineering

We can reproduce or improve legacy harnesses by working from physical samples or client-supplied drawings, which is ideal for equipment upgrades or replacements.



Agile, In-House Capability

All engineering is handled internally, giving us the control and speed to adapt to shifting project scopes, tight timelines and complex specs.



New System Design

Whether you're integrating new components or building something from the ground up, we design harnesses to meet electrical, spatial and environmental requirements.



Industry Expertise

Our engineers bring hands-on experience across harsh and high-performance environments, ensuring designs are grounded in real-world function.



Engineering Problem-Solving

Our work starts with understanding your challenge. From there, we engineer practical, durable solutions that address operational needs and constraints.

Industrial Control Enclosures

Every component housed. Every connection rated.

Harness Solutions Australia designs and builds control enclosures for PLCs, relays and terminals — fully fitted out and wired in-house, ready to install on mining, transport and industrial sites.

Control enclosures rarely arrive ready to run. We build every enclosure in-house, from PLC and relay mounting through to IP66/IK10-rated fit-out, so what ships is ready to install — not pieced together after the fact.

Core Capabilities

Trusted by heavy equipment, transport and industrial automation teams for enclosures that are engineered around the gear that goes inside them — not the other way around.



Industrial Automation & Control

PLCs, motor starters, relays and interface terminals — housed, mounted and wired to run, not just boxed and shipped.



Electrical Distribution

Modular distribution panels, switchgear and terminal blocks, laid out for safe access and fast fault-finding on site.



Telecommunications & Electronics

Routers, networking equipment and environmental monitoring gear, protected against dust, moisture and knocks in the field.



Custom Fit-Out, Not Off-the-Shelf

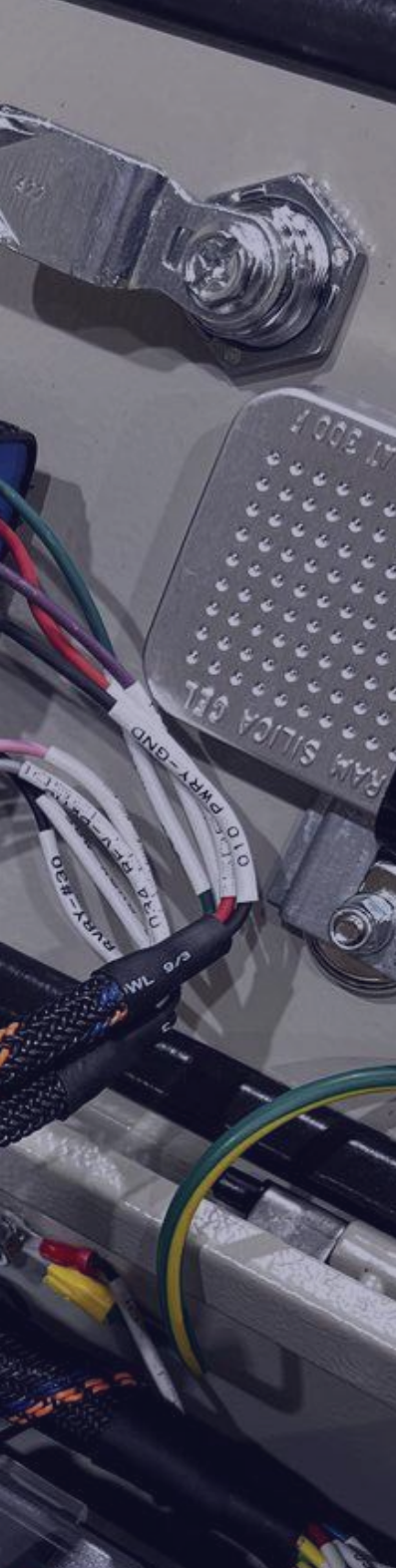
We build the internal layout around your PLC, relay and terminal schedule — instead of a generic catalogue spec.



Sized & Laid Out Around Your Gear

No compromise on layout, sizing or mounting to fit a standard shelf item — every enclosure is built to match your PLC, relay and terminal count exactly.





Built to the Same Standard as Every Harness

Every control enclosure meets the same compliance and durability benchmarks we apply across our wiring harness work.



IP66-Rated

Dust-tight and protected against powerful water jets.



IK10-Rated

Impact-resistant against knocks, vandalism and mechanical damage.



Weather & Corrosion Resistant

Polyurethane door seals and specially treated metal surfaces keep water and rust out.



Full In-House Fit-Out

DIN rail, terminal fit-out and steel cable gland plates for secure, simple cable routing.



Documented on Every Job

Design drawings, BOMs, test records and compliance sign-off.



Australian Made

No overseas supply chain risk.

How It Works

1 Spec & Layout

We review your PLC, relay and terminal requirements and the environment the enclosure needs to survive.

2 Fit-Out & Wire

Mounting, DIN rail, steel cable gland plates and control wiring, built and tested in-house.

3 Delivery & Support

Dispatched ready to install, with documentation and support once it's on site.

Electrical Product Design

Our electrical product design service delivers tailored harness and cabling solutions that meet specific operational, environmental and compliance requirements. Whether you're replacing an OEM harness, developing a new system, or adapting for automation or communications, our in-house team designs products that perform reliably in the real world.

From mining and agriculture to defence, transport and marine applications, we ensure every solution is engineered for fit, function and longevity.

Core Capabilities

✓ OEM Replacements & Upgrades

Design and manufacture direct-replacement harnesses for all types of vehicles and machinery, including improvements for reliability or integration.

✓ Custom Harness Design

Development of new harnesses for company-specific equipment, vehicles, communication systems or rapid-deployment kits.

✓ Industry-Tailored Solutions

Specialised designs for mining (loaders, graders, haul packs), agriculture (climate-ready equipment), marine, rail and defence.

✓ Pre-Made Cabling & Braiding

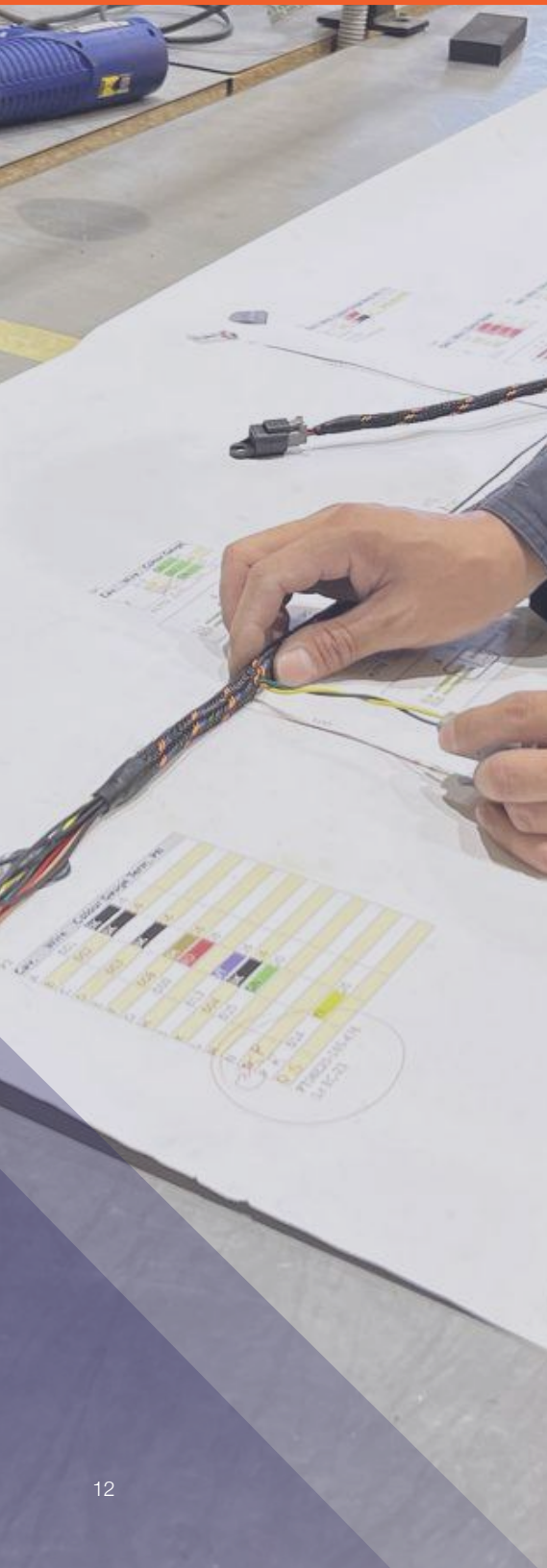
Manufacturing of ready-to-install cables and braided assemblies for contractors and equipment suppliers.

✓ Agile Design Process

We work closely with clients to adapt designs in real time, ensuring functionality, integration and compliance.

✓ End-to-End Capability

With electrical, mechanical and engineering services under one roof, we manage the full design process—from concept to production.



On-Site Harness Installation Services

Harness Solutions Australia provides full on-site installation services for custom wiring harnesses, ensuring seamless integration, safe operation and minimal disruption to your workflow.

From light vehicles and large mining equipment to communications trailers, marine systems and defence assets, our team installs harnesses to specification, on schedule, and with full compliance to industry standards.



Core Capabilities



Machinery & Vehicle Installation

Installations for excavators, dozers, graders, shovels, loaders, haul packs and a wide range of light and heavy vehicles.



Pre-Scheduling & Planning

We work with your operational timeline to minimise downtime, with clear coordination and advance site preparation.



Communications & Technology

Harness integration for communication systems, mobile trailers, and rapid deployment kits for autonomous or remote operations.



Strategic Mobilisation

Our install teams are positioned in key regions such as the Pilbara, enabling fast mobilisation to remote or high-demand sites.



Sector-Specific Capability

Installation services tailored for marine, agricultural, rail and defence environments, including secure, compliant execution.



Streamlined Site Delivery

Harnesses are delivered ready-to-install and aligned with technician scheduling, ensuring a smooth, efficient installation process.



To discuss
your project or
request a custom
wiring solution,
**get in touch with
our team.**

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