



Harness Solutions

Designed for Critical Connections



SMETA 4-PILLAR CERTIFIED FACTORY



About Us

WIPE hotwire is a precision manufacturing partner delivering globally compliant wire and cable solutions for high-performance industries worldwide. Since 2004, we have built our reputation on engineering discipline, manufacturing consistency, and the ability to deliver reliable cable solutions that meet evolving industrial and infrastructure requirements.

With strong in-house capabilities across product R&D, custom engineering, and advanced manufacturing, WIPE hotwire develops standard and specialized cables designed for precision, durability, and long-term operational performance. Our product portfolio includes **Electric Underfloor Heating Solutions, EV Motor Harness & Other Applications, Speciality Cables, Process Automation Cables & Harness and Aerospace Cables & Harness** serving diverse industrial and global applications.

Today, WIPE hotwire operates through **three manufacturing facilities in Neemrana, Rajasthan**, supported by a workforce of approximately **340 skilled professionals**. This integrated manufacturing ecosystem enables scalable production, quality consistency, and the flexibility to support both standard and customized requirements for OEMs, industrial buyers, distributors, and global partners.

Our commitment to quality, compliance, and responsible manufacturing is reflected through globally recognised certifications including **UL (USA & Canada), VDE (Europe), SMETA Ethical Manufacturing Audit, ISO 9001:2015, and IATF 16949:2016**. These certifications reinforce our focus on quality, safety, process excellence, ethical manufacturing practices, and global market readiness.

Guided by our philosophy of **"Precision Manufacturing for Global Possibilities"**, we continue to invest in innovation, engineering excellence, and manufacturing capability to deliver dependable wire and cable solutions that power critical industries with confidence, reliability, and precision.

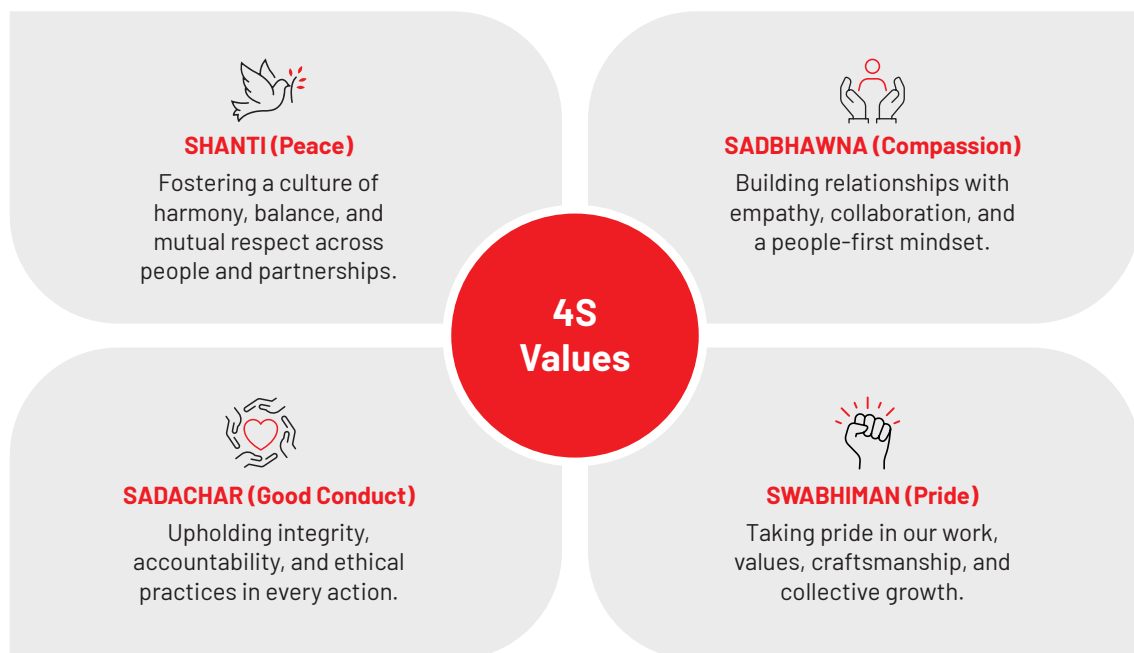
Our Mission

To pursue growth and excellence in our people, products, and services through innovation, collaboration, and a strong commitment to continuous improvement.

Our Vision

To build an organisation where both the company and its people continue to grow in capability, performance, and achievement year after year, while creating lasting value for customers, partners, and stakeholders.

The WIPE hotwire Credo



The Core of Our Capability

From precision hook-up wires to engineered harness solutions, WIPE hotwire offers a comprehensive portfolio of cables and connectivity solutions designed for demanding industrial and commercial applications. Backed by in-house engineering and manufacturing, our products deliver reliable performance across diverse industries and meet global quality and compliance standards.

Engineering Capabilities



Conductor Size Range: 30 AWG to 4/0 AWG (0.13 mm² to 120 mm²)



Temperature Range: -65°C to 260°C



Configurations: Up to 37 cores, 37 pairs, or 19 triads



Insulation & Sheath Materials: PVC, LSZH, PE, HDPE, TPE, TPU, XLPE, XLPO, PTFE, ETFE, FEP, and PFA Compliance



Shielding Options: Aluminum foil, braiding, and armor



Frequency: Up to 250 MHz for data

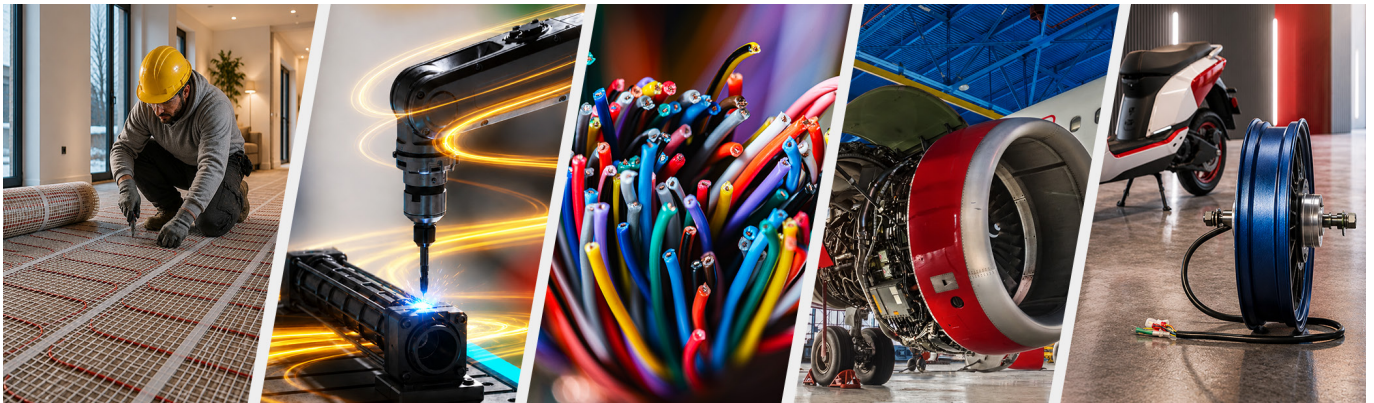


Voltage Rating: Up to 1000V



Standards & Certifications: cUL, VDE, CE, RoHS, REACH, BIS

Product Portfolio



Electric Underfloor Heating Solutions

- Indoor Underfloor Heating Systems
- Outdoor Underfloor Heating Systems
- Constant Wattage Heating Cables
- Frost-Free Pipe Heating Cables

Process Automation Cables & Harness

- Power & Control Cables
- Instrumentation Cables
- Ethernet Cables
- Audio, Control & Instrumentation Cables
- High-Temperature Control Cables
- Fire Alarm & Signaling Circuit Cables
- VFD Cables

Specialty Cables & Harness

- UL 758 Appliance Wires
- UL 44 Thermoset Insulated Wires
- UL 13 Cables
- PVC Insulated & Nylon Coated Wires
- High-Temperature Wires (MIL Specifications)
- RF Cables (MIL-C-17, JSS 51100)
- Thermocouple Cables
- Automotive Wires

Aerospace Cables and Harness

- Hook-Up Wires (Single-Core)
- Shielded & Unshielded Multicore Cables
- Power Cables
- Thermocouple & Sensor Cables
- Custom & Specialty Cables

EV Motor Harness & Other Harness Applications

- Hub Motor Harness
- Mid-drive Motor Harness
- High Voltage Battery Harness
- Low Voltage Automotive Harness
- Battery Cable Assemblies
- Agriculture Wiring Harness
- Construction Equipment Harness
- Air Conditioner Wiring Harness
- Lighting Wiring Harness
- Custom Engineered Harness



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EV Motor Harness

Precision Tailored for Every Motor



Overview

WIPE hotwire EV Motor Harnesses are purpose-built for 2-wheeler EVs with hub and mid-drive motor configurations. Manufactured end-to-end in-house, from wire to finished harness, they are IP67 certified for reliable performance under high current, heat, and continuous vibration.

Key Features

-  IP67-rated protection with validated water ingress resistance, designed for demanding EV operating environments
-  Engineered for high performance and durability
-  Pioneers in designing wire harnesses for electric two-wheelers
-  In-house design capability from wire to complete harness

Applications

-  Hub motor two-wheelers
-  Mid-drive motor configurations
-  Electric scooters and motorcycles
-  EV manufacturers and system integrators

Technical Specifications

-  Power Range: 700W to 20kW
-  Running Current: 35 to 200 Amp
-  Maximum Current: 300 Amp
-  Rim Diameter: 10 to 17 Inch (hub and mid-drive configurations)
-  Wire Insulation Temperature Rating: -40°C to 260°C, depending on the actual harness construction and application
-  IP Rating: IP67

Typical Harnesses Include

- Motor Phase Harness
- Hall Sensor Harness
- Controller Harness
- Throttle Harness
- Battery Harness
- Charger Harness
- Display Harness
- Brake Sensor Harness
- DC Converter Harness
- CAN Harness

High Voltage Harness

Precision Power Distribution for Electric Mobility



Overview

WIPE hotwire High Voltage Harnesses are engineered for EV battery systems operating from 48V to 800V. Designed for safe, efficient, and reliable power transmission, these harnesses deliver superior electrical performance while meeting the demanding requirements of modern electric vehicles.

Key Features

-  High-voltage cable assemblies for EV applications
-  EMI-shielded for signal integrity
-  High-current carrying capability
-  HVIL (High Voltage Interlock Loop) integration
-  Waterproof and abrasion-resistant construction
-  High-voltage connector compatibility
-  Custom-engineered solutions for OEM requirements

Applications

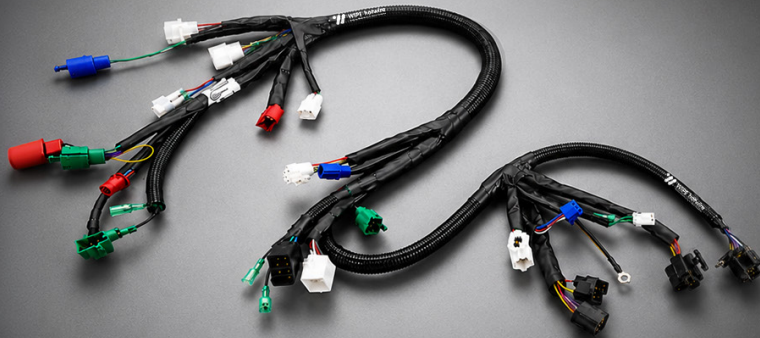
-  Passenger Electric Vehicles
-  Commercial Electric Vehicles
-  Battery Packs
-  Power Distribution Units (PDU)
-  Inverters
-  On-board Chargers

Product Range

- Battery Pack Harness
- HV Battery Cable
- HV Junction Box Harness
- Motor Harness
- Charging Harness

Automotive Wiring Harness

Reliable Connectivity for Modern Vehicles



Overview

WIPE hotwire Automotive Wiring Harnesses are engineered to deliver dependable electrical connectivity across passenger vehicles, commercial vehicles, and off-highway equipment. Designed for durability and long-term reliability, our harnesses support critical vehicle systems in demanding operating environments.

Key Features



Custom-designed harness assemblies



High reliability and long service life



Heat, vibration, and abrasion resistant



OEM-specific connector integration



Precision manufacturing with stringent quality control



Suitable for high-volume production

Applications



Engine Harness



Body Harness



Door Harness



Dashboard Harness



Roof Harness



Lighting Harness



ABS Harness



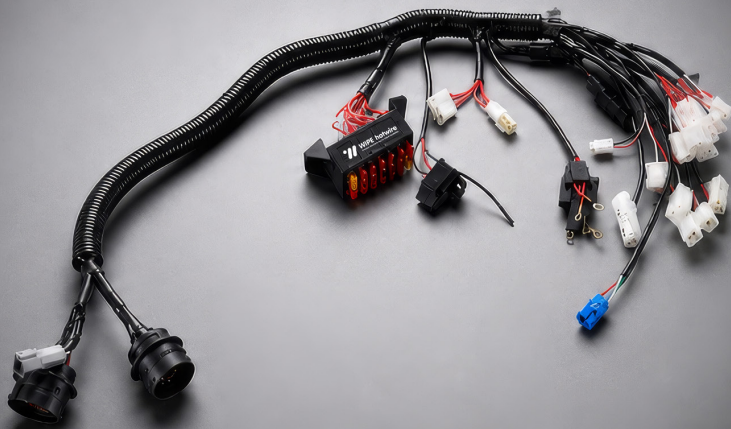
Fuel Pump Harness



Sensor Harness

Agriculture Harness

Built for Rugged Agricultural Environments



Overview

Designed for harsh outdoor conditions, WIPE hotwire Agriculture Harnesses deliver reliable electrical connectivity for agricultural machinery and equipment. Engineered to withstand mud, moisture, chemicals, and continuous vibration, these harnesses ensure dependable performance in the field.

Key Features

-  Mud-resistant construction
-  Water-resistant design
-  Chemical-resistant materials
-  High flexibility
-  UV-resistant cables
-  Built for outdoor operating conditions

Applications

-  Tractors
-  Harvesters
-  Seeders
-  Sprayers
-  Power Tillers

Product Range

- Tractor Harness
- Harvester Harness
- Sprayer Harness
- Rotavator Harness
- Dashboard Harness
- Lighting Harness
- Battery Cable
- Sensor Harness

Construction Equipment Harness

Engineered for Heavy-Duty Performance



Overview

WIPE hotwire Construction Equipment Harnesses are designed to perform reliably in demanding environments where heavy machinery operates under extreme mechanical and environmental stress. Built for durability, these harnesses ensure uninterrupted power and signal transmission.

Key Features



Heavy-duty construction



High flexibility



Oil-resistant materials



Abrasion-resistant design



Weather-resistant performance



High-current battery cable assemblies

Applications



Construction Equipment



Mining Equipment



Material Handling Systems



Earthmoving Machinery

Product Range

- Excavator Harness
- Backhoe Loader Harness
- Wheel Loader Harness
- Crane Harness
- Telehandler Harness
- Boom Lift Harness

Battery Cable Assemblies Harness

High-Current Cable Assemblies for Critical Power Applications



Overview

WIPE hotwire Battery Cable Assemblies are designed for efficient high-current power transmission across electric mobility, energy storage, and industrial applications. Manufactured using premium conductors and precision crimping processes, these assemblies deliver exceptional electrical performance and long-term reliability.

Key Features



Precision copper lug crimping



Heat shrink protection



High-current capability



Flexible cable construction



Tin-plated terminals



100% pull-force tested



Voltage tested for reliability

Applications



Electric Vehicles



Forklifts



Battery Energy Storage Systems (BESS)



Solar Power Systems



UPS Systems



Construction Equipment



Agricultural Equipment

Product Range

- 35 sq.mm
- 50 sq.mm
- 70 sq.mm
- 95 sq.mm
- 120 sq.mm

Air Conditioning Harness

Reliable Wiring Solutions for HVAC Systems



Overview

WIPE hotwire Air Conditioning Harnesses provide dependable electrical connectivity for residential, commercial, and industrial cooling systems. Designed for reliable operation under varying temperature conditions, these harnesses support consistent system performance throughout their service life.

Key Features



Heat-resistant materials



Compact harness design



Reliable electrical performance



High cycle life



Precision connector integration

Applications



Residential Air Conditioners



Commercial HVAC Systems



Industrial Cooling Equipment

Product Range

- Indoor Unit Harness
- Outdoor Unit Harness
- Compressor Harness
- Fan Motor Harness
- Sensor Harness
- PCB Harness
- Power Cord Assembly

Lighting Harness

Reliable Connectivity for Advanced Lighting Systems



Overview

WIPE hotwire Lighting Harnesses are designed to provide dependable electrical connections across indoor and outdoor lighting applications. Built for durability and long-term performance, these harnesses withstand demanding environmental conditions while ensuring consistent power delivery.

Key Features



Waterproof construction



UV-resistant materials



Compact design



Outdoor-rated performance



Long service life

Product Range

- LED Harness
- Street Light Harness
- Architectural Lighting Harness
- Panel Light Harness
- Industrial Lighting

Manufacturing Capability

Precision Manufacturing from Concept to Production



Overview

WIPE hotwire combines advanced manufacturing infrastructure with stringent quality processes to deliver precision-engineered wiring harness solutions for diverse industries.

Manufacturing Processes



Automatic Wire Cutting & Stripping



Semi-Automatic Crimping



Applicator Crimping



Ultrasonic Welding



Wire Twisting



Harness Taping



Heat Shrinking



Continuity Testing



High Voltage Testing



Pull Force Testing



IP67 Leak Testing

Engineering & Validation

Engineering Support Across the Product Lifecycle



Overview

From concept development to mass production, our engineering team partners with customers to deliver application-specific wiring harness solutions that meet stringent quality and performance requirements.

Capabilities



3D Routing



Harness Design Support



Prototype Development



APQP



DFMEA / PFMEA



PPAP Documentation



Validation Testing



Reliability Testing



Customer Approval



Mass Production

Quality Assurance

Quality Built into Every Connection



Overview

Every WIPE hotwire wiring harness undergoes rigorous testing and validation to ensure safety, reliability, and consistent performance before dispatch.

Quality Systems



IATF 16949



ISO 9001



100% Continuity Testing



Crimp Force Validation



Pull Force Testing



Terminal Cross-Section Analysis



IP67 Validation



High Voltage Testing



Visual Inspection



Complete Product Traceability

Industries We Serve

Engineered Solutions Across Diverse Industries



Overview

WIPE hotwire delivers precision wiring harness and cable assembly solutions for a wide range of industries, supporting critical electrical and connectivity applications.

Industries



Electric Two-Wheelers



Passenger Electric Vehicles



Commercial Vehicles



Agricultural Equipment



White Goods



Construction Equipment



Industrial Equipment



Battery Energy Storage Systems (BESS)

Let's Start the Next Manufacturing Partnership

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