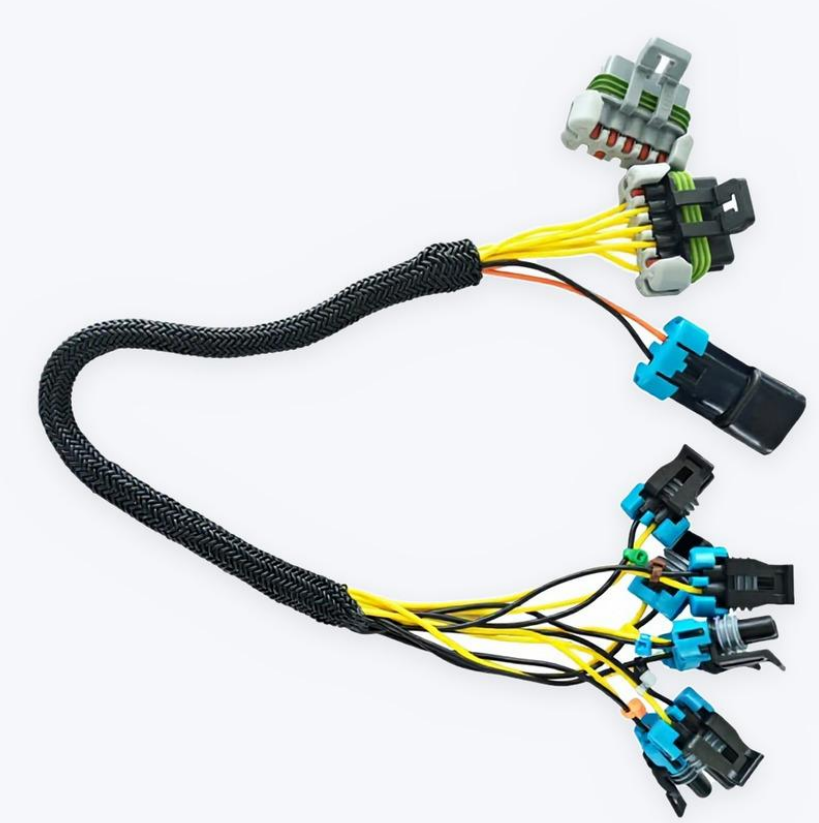
CUSTOM WIRE HARNESS · CABLE ASSEMBLY

Custom Wire Harness & Cable Assembly Solutions

We turn drawings, samples and connection requirements into custom wiring harnesses.

Automation · Energy Systems · OEM Equipment · Off-Highway Machinery

OEM Manufacturing & Custom Engineering Support



WHAT WE DO

We turn drawings, samples and connection requirements into custom wiring harnesses across industrial applications.

Automation · Energy Systems · OEM Equipment · Off-Highway Machinery

One process, four equipment domains. A drawing, sample or BOM is reviewed, quoted and built as a documented assembly — with the connector, protection and identification decisions recorded rather than assumed.

Because the same four questions come up in every domain — what does it connect to, how is it routed, what does it have to survive, and how is it serviced — a single engineering process carries across all of them.



BUILT TO YOUR DRAWING

We work from your drawing, sample or BOM — not from a fixed catalogue.

SMALL BATCHES ACCEPTED

Prototype builds and repeat production runs go through the same process.

INSPECTED BEFORE SHIPMENT

Continuity and pinout verified against the harness drawing.

APPLICATIONS

Four Applications, One Process

Each application gets two pages: what the harness has to survive, then the assemblies we typically build for it.



Industrial Automation & Motion Control

Servo axes · PLC cabinets
sensor networks

PAGES 04 – 05



Energy Storage & Power Equipment

Battery racks · BMS cabinets
PCS units

PAGES 06 – 07



OEM Equipment Harnesses

HVAC units · compressors
control cabinets

PAGES 08 – 09



Off-Highway Machinery

Harvesters · tractors
sprayers · implements

PAGES 10 – 11

ALSO QUOTED ON REQUEST

Robotics & automation · Liquid cooling & thermal management · General industrial equipment

Cable harnesses for Industrial Automation & Motion Control

Typical equipment: servo axes · PLC cabinets · sensor networks · machine cells



WHAT MATTERS IN THIS APPLICATION

- **Resistance to continuous flexing**

  Stranding and jacket compound selected for cable-carrier duty, not static installation.

- **Resistance to drive-induced interference**

  Twisted pairs with overall shield, bonded at both ends to hold encoder signal integrity.

- **Resistance to wiring error**

  Cut length, branch position and pinout matched to the cabinet layout before assembly.

- **Resistance to connector failure**

  Crimp height and strain relief controlled at both the drive and the motor end.

Built to your drawing · Small batches accepted · Inspected before shipment

Typical Assemblies



Servo Power Cable

Drive to motor · power

Continuous-flex construction; shield bonded at both ends for EMC.



Servo Brake Cable

Motor holding brake

Power and brake conductors combined in one motor-side assembly.



Encoder Feedback Cable

Position feedback

Twisted pairs, overall shield and low-capacitance construction.



PLC I/O Multi-Branch Harness

Cabinet to field devices

Multi-branch loom with numbered circuits and sleeve protection.



M8 / M12 Sensor Harness

Sensor distribution

Moulded M8 and M12 connectors on a common trunk with branch tails.



Motor Power & Signal Combo

One assembly, two circuits

Power and feedback combined, with internal separation between them.

CUSTOMIZATION OPTIONS Connector family · Cable length and branch spacing · Conductor gauge · Sleeve type · Circuit identification · Batch marking

Cable harnesses for Energy Storage & Power Equipment

Typical equipment: battery racks · BMS cabinets · PCS units · containerised storage



WHAT MATTERS IN THIS APPLICATION

- **Resistance to high-current interference**

  Voltage-sampling runs kept physically separate from the power conductors.

- **Resistance to measurement drift**

  Terminal and contact quality controlled so sampling accuracy holds over time.

- **Resistance to connector mis-mating**

  Keyed and colour-coded connectors prevent cross-plugging between strings.

- **Resistance to service downtime**

  Looms split per module so a single rack can be serviced without rewiring.

Built to your drawing · Small batches accepted · Inspected before shipment

Sampling, Signal and Communication



BMS Voltage Sampling Harness

Cell voltage acquisition

Branched sampling loom with keyed connectors for each module.



BMS Sampling — Multi-String

Rack-level acquisition

Longer runs with grouped tails and string identification at the plate.



Battery Temperature Sampling

NTC temperature sensors

Sensor tails terminated and labelled per measurement point.



Module Signal & Communication

CAN / daisy-chain

Communication runs kept separate from voltage-sampling circuits.

CUSTOMIZATION OPTIONS

Sampling point count · Cable length per string · Connector and terminal type · Circuit identification · Sleeve and protection · Rack grouping

03 OEM EQUIPMENT

Cable harnesses for OEM Equipment

Typical equipment: HVAC units · compressors · motor control panels · control cabinets



WHAT MATTERS IN THIS APPLICATION

- **Resistance to cabinet congestion**

  Looms formed to the panel layout so installers do not re-route on site.

- **Resistance to compressor vibration**

  Vibration-tolerant terminations and clamped routing on moving assemblies.

- **Resistance to incorrect servicing**

  Every circuit identified at both ends for maintenance and field repair.

- **Resistance to moisture ingress**

  Sealed interfaces wherever the harness leaves the enclosure.

Built to your drawing · Small batches accepted · Inspected before shipment

Typical Assemblies



HVAC Controller Harness

Rooftop and packaged HVAC

Controller-to-actuator loom with keyed connectors and labelled branches.



HVAC Control Panel Harness

Panel internal wiring

Panel-side assembly cut to the enclosure layout and terminal positions.



Compressor & Fan Control

Compressor / condenser group

Power and control combined, with separate runs to fan and compressor.



Motor Control Harness

Motor starter / drive

Starter-to-motor assembly with protective sleeve at the enclosure entry.



Motor Control — Reversing

Reversing starter

Additional conductors for reverse duty, identified at both ends.



Cabinet Multi-Branch Harness

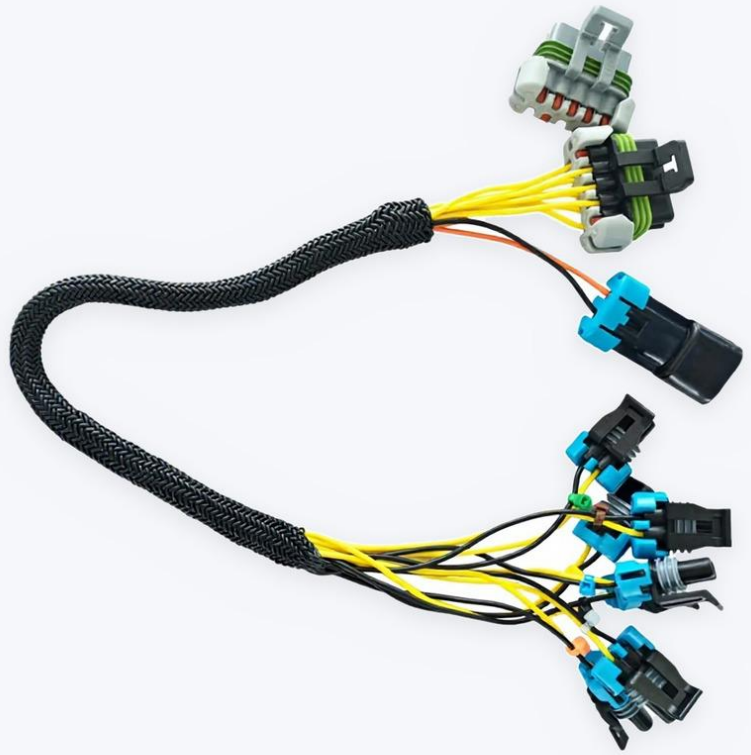
Control cabinet internal

Multi-branch loom with numbered circuits and grouped returns.

CUSTOMIZATION OPTIONS Connector family · Cable length and branch spacing · Conductor gauge · Sleeve type · Circuit identification · Panel cut-out fit

Cable harnesses for Off-Highway Machinery

Typical equipment: combine harvesters · tractors · sprayers · seeders · implements



WHAT MATTERS IN THIS APPLICATION

- **Resistance to washdown and mud**

  Sealed connectors at every exposed joint; sleeve where the run meets structure.

- **Resistance to frame abrasion**

  Corrugated tube or braided sleeve along every contact point with the chassis.

- **Resistance to low-temperature stiffening**

  Cable and jacket grades that stay supple after a cold soak.

- **Resistance to seasonal downtime**

  Assemblies built and inspected before the season, not during it.

Built to your drawing · Small batches accepted · Inspected before shipment

Typical Assemblies



Machine Main Harness

Complete machine

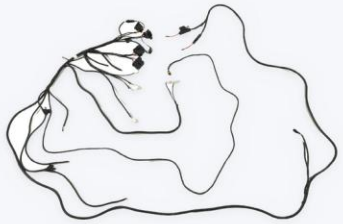
Multi-branch main run with over-moulded nodes and braided sleeve protection.



Main Harness — Front Section

Engine and front frame

Forward section routed around heat sources and steering structure.



Cabin & Console Harness

Operator cabin

Console and switch wiring bundled for confined cabin routing.



Monitor & Sensor Harness

Display and sensing

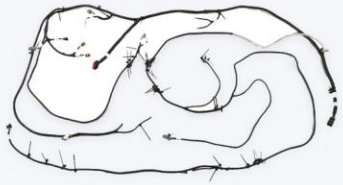
Signal runs kept separate from lighting and power circuits.



Air-Conditioning Harness

Cab climate system

Compressor and blower wiring with sealed connector interfaces.



Threshing & Attachment Harness

Threshing and implements

Runs across moving joints with abrasion sleeve at fold points.

CUSTOMIZATION OPTIONS Connector family and housing · Cable length and branch spacing · Conductor gauge · Sleeve type · Circuit identification · Connector sealing class

ENGINEERING

Customization Capabilities

Every decision below is recorded against the drawing before the assembly is built.

01 Connector & Terminal Selection

Housings, terminals and seals matched to the mating interface.

02 Wire Gauge & Cable Type

Conductor size and insulation chosen for the load and the environment.

03 Cable Length & Branch Layout

Branch points and lengths set to the routing envelope, not to a table.

04 Pin Assignment & Circuit ID

Pinout and circuit identification exactly as the drawing specifies.

05 Corrugated Tube & Sleeve

Mechanical and abrasion protection along the full run.

06 Heat-Shrink & Strain Relief

Termination protection and bend relief at the connector.

07 Labels & Identification

Wire marking, bundle labels and circuit tags for field service.

08 Continuity & Pinout Inspection

Electrical verification against the harness drawing before packing.





Component detail — branch nodes, sleeve, heat-shrink and circuit marking.

WORKFLOW

From Requirement to Production

One documented route, whether the quantity is a prototype set or a repeat batch.

01 **Requirement Review**

02 **Drawing & Material**

03 **Quotation & DFM**

04 **Prototype Build**

05 **Sample Validation**

06 **Batch Production**

07 **Inspection & Delivery**

RFQ INFORMATION

For a faster evaluation, please provide:

- Application or equipment type
- Drawing, sample or BOM
- Connector and terminal information
- Cable length and branch dimensions
- Wire gauge and electrical requirements
- Protection and environmental requirements
- Flex or movement requirement
- Estimated order quantity

Scope is confirmed against your documentation before quotation — no assumptions are carried into production.

GET IN TOUCH

Send a drawing, a sample or an application description.

We review the requirement, confirm the open points and come back with a quotation.

COMPANY

EMAIL

WHATSAPP

WEBSITE

LOCATION

QR CODE

OEM Manufacturing &
Custom Engineering Support

