

Wiring Harness & Cable Assembly RFQ Checklist

P&A International — engineering-led contract manufacturer + vetted partner-factory network. The more of this you can share, the faster we return a proposed build and quote.

1. What to send for a fast, accurate quote

- Wiring diagram / harness drawing, or a sample to copy
- Connector make & series at each end (or function, if you want us to recommend)
- Wire gauge (AWG), insulation type, colour code and rating (voltage/temperature)
- Circuit count, overall length and any branch/breakout dimensions with tolerances
- Terminals/contacts, crimp vs IDC, and any pre-tinning
- Sleeving, braid, conduit, tape, heat-shrink, labels and strain relief
- Overmould / potting requirements, and any USB / RF / coax / ribbon specifics
- Continuity / hipot / pull-test requirements and IPC/WHMA-A-620 class
- Operating environment (temperature, vibration, IP, automotive/medical)
- Target cost, prototype quantity, and annual volume or call-off pattern

2. Wiring & cable selection quick reference

Decision	Guidance
Build type	Single cable assembly, multi-branch wire harness, ribbon/IDC, or an overmoulded cable — tell us the application and we will recommend.
Wire & terminal	AWG, insulation and rating set current capacity and flexibility; matching the right terminal/crimp to the contact is the main reliability driver.
Protection	Sleeving, braid, conduit, tape and heat-shrink for abrasion, EMI and flex life; strain relief where the cable enters connectors.
Test & class	Continuity and hipot as standard; IPC/WHMA-A-620 Class 1/2/3 to match the product's reliability needs.
Environment	Temperature, vibration, moisture/IP and any automotive or medical requirement drive material and overmould choices.

3. How we work

Send your drawing or sample → one dedicated engineer reviews it and confirms the build → you receive a proposed build and indicative price (typically within 48 hours) → qualified samples with test data in 10–15 working days → on approval we scale into volume through our vetted partner-factory network, where every supplier is ISO 9000 certified or better.

Send your enquiry and files to support@pa-international.com.au — or use the quote form on the wiring page. No project too big or too small.