

Quality & Testing

How we test every fiber patch cord and connector batch · Hengchang Technology, China · www.hengchangtech.com

1. Fiber optic patch cords

Step	What we do	Evidence
Incoming fibre & components	Supplier inspection; fibre type and jacket material verified	Inspection records
Assembly	Controlled stripping, cleaving, curing, polishing (UPC / APC 8°)	Process control
Optical test (100%)	Insertion loss (IL) and return loss (RL) measured on every cord	Test report per cord
Endface inspection	Ferrule endface checked for scratches / defects	Microscope inspection
Label & packing	Part number, specification and test data on the label; individual bag	Label photo / sample

Typical guaranteed values

Parameter	Specification
Insertion loss (IL)	≤ 0.3 dB (0.2 dB grade available on request)
Return loss (RL)	UPC ≥ 50 dB · APC ≥ 55 dB (60 dB grade available)
Interchangeability	≤ 0.2 dB
Operating temperature	−40 °C to +85 °C (cable dependent)

Every shipment includes test reports. A sample test report is available on request (and as a download from our website).

2. Electronic connectors & cable assemblies

Stage	Control
Tooling & first article	First samples measured against the approved drawing before mass production
Incoming material	Terminal material, plating and housing resin verified
In-process	In-line inspection at assembly stations
Final inspection	Appearance, dimensions, plating, insertion/withdrawal force, continuity (per product)
Electrical / mechanical	Continuity, insulation, durability testing to specification or USB-IF targets

3. Certifications & compliance

Item	Status
RoHS / REACH	Available for our materials and processes
CE	Available where applicable to the product
ISO 9001 quality management	Available on request
Client-specific testing	Per your specification (e.g. full IL/RL matrix, tensile, salt spray)

We state only what a product genuinely holds. If a certificate matters for your market, tell us at enquiry stage and we will confirm exactly what is available for that item.

4. Packaging & shipping

- Each cord individually bagged with label and test data
- OEM / neutral packaging available; carton labelling to your requirement
- Export cartons with shipping marks; palletising on request
- Shipment: express (samples), air or sea (bulk) — we will quote the most practical option

5. Contact

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Need a sample test report or a specific inspection protocol? Send your requirement and we will reply within 24 hours.