

Electronics Assembling Services

Experience
Knowhow
Quality
Reliability

Electronics Assembling Services

- Production Engineering
- Sourcing
- Components Quality Assurance
- System Assembling
- Our Experience
- ACF Heat Seal Bonding
- System Quality Assurance - Testing
- Logistics
- Outlook

Production Engineering

- Wide knowhow about today's electronics
- Circuit development and PCB layout
- Development of best production solution
- Evaluation, acquisition of tooling
- Coordination with customers engineering
- Device problem analysis
- Solution suggestions

Sourcing

- Supplier selection
- Second source management
- Purchasing
- Component quality assurance
- Storage

Components Quality Assurance

- Incoming inspection
- Fault analysis and reports
- Bad component handling
- Customer information
- Solution finding

Systems Assembling

Getronic Engineering AG has the knowhow and the experience to assemble any mechanical and electronic components to the target system according customers technical information, Production-Manual.

Our Experience

- Wide knowhow about basic electronic systems
- Analog and digital components
- Test strategies for complex systems
- Several automated test systems
- Connection techniques like soldering, crimping and
- ACF Heat-Seal-Bonding for fine pitch interconnects
- Circuit development and layout of PCBs
- CAD systems
- PCBs manufacturing

ACF Heat Seal Bonding

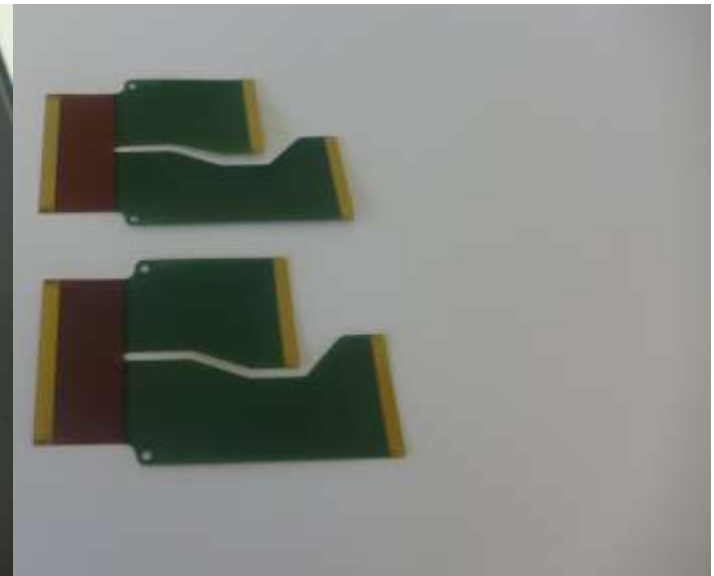
ACF Heat Seal Bonding is used due to the very fine pitch (0.1mm) of today's interconnects

- **Laminating of ACF** (Anisotropic Conductive Film) to FPC (Flexible Printed Circuits)
- **Heat Seal Bonding** of the ACF laminated FPC to the glass or the aSi-panel
- **Delaminating procedures** (rework and new bonding)
- Optical and electrical **tests**

ACF Heat Seal Bonding

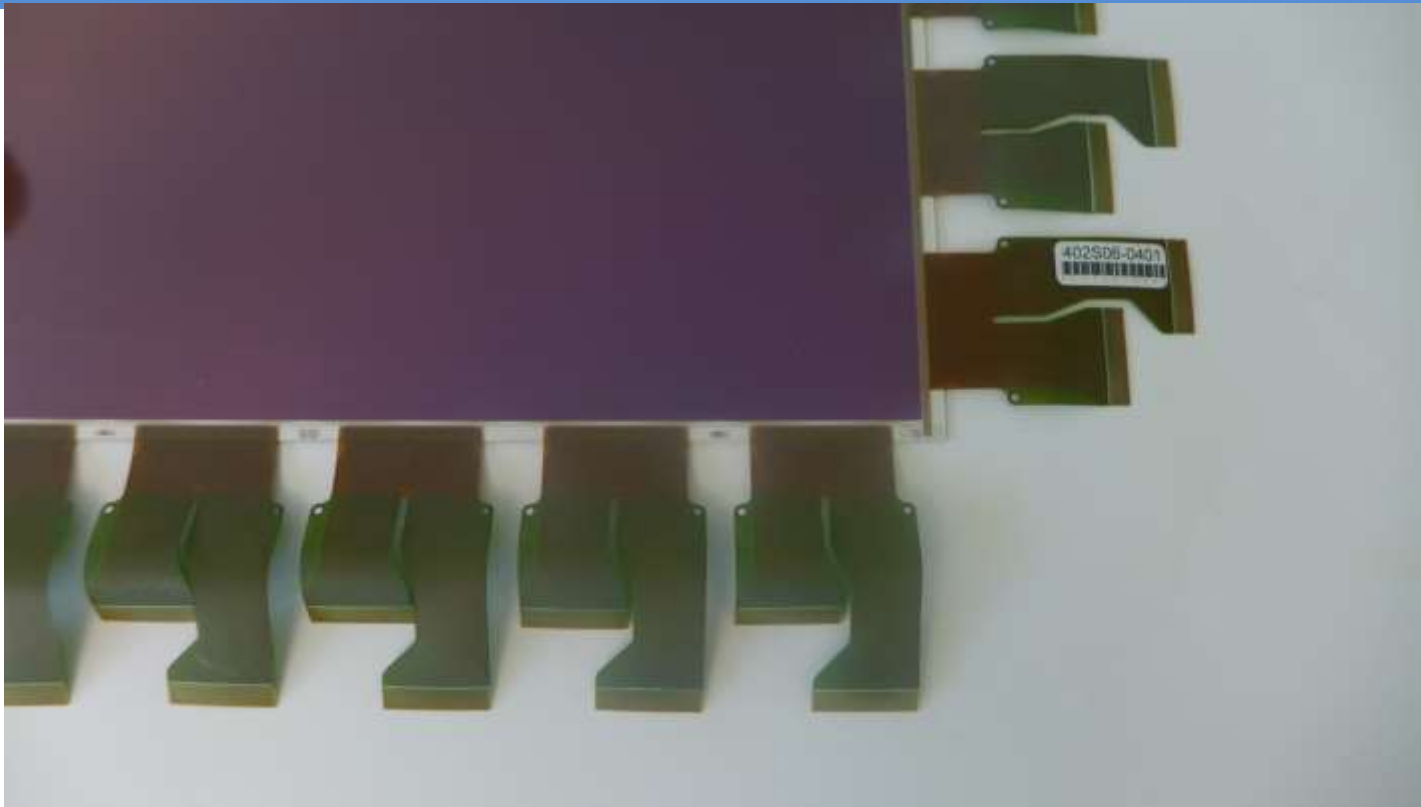


Electronic glass panel (LCD, sensor, etc.)
Interconnects pitch = 0.2 mm



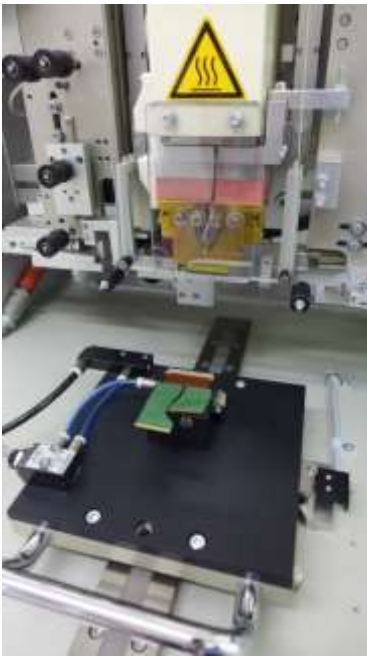
Flexible Printed Circuitboard
Interconnects pitch = 0.2 mm

ACF Heat Seal Bonding

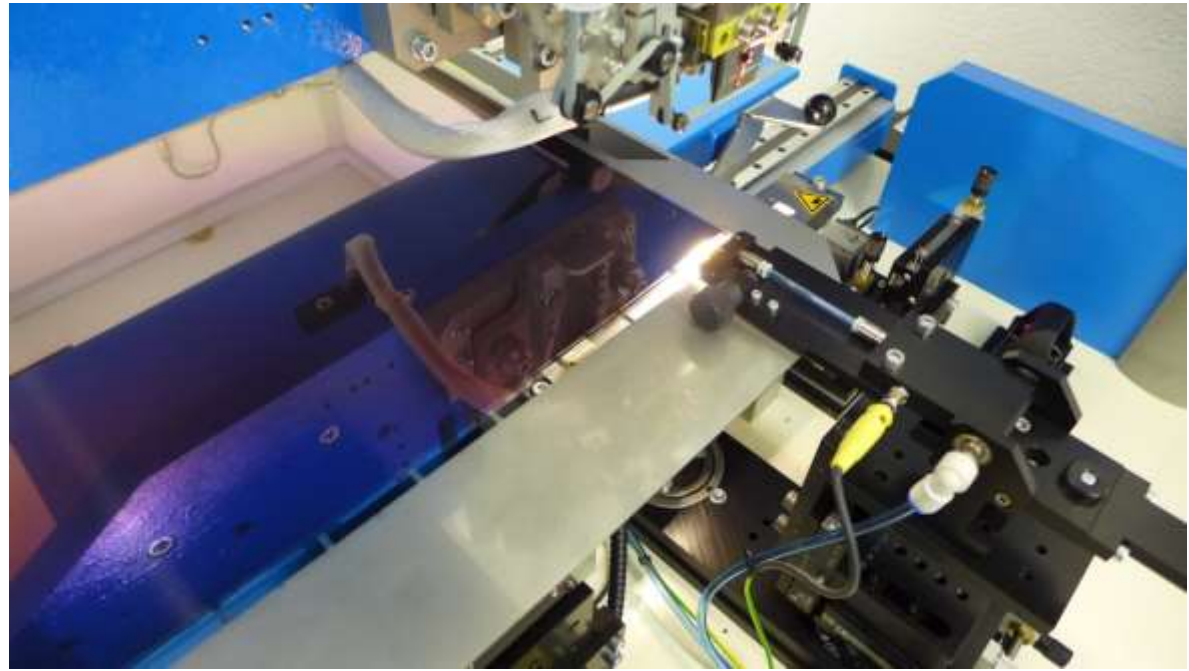


ACF-Heat-Seal-Bonded flat panel with all Flexes

ACF Heat Seal Bonding



**1. ACF lamination
on to the flex**



**2. ACF Heat Seal Bonding
of the flex to the panel**

ACF Heat Seal Bonding Process

System Quality Assurance - Testing

- Full system tests with customer test application
- Functional tests on general purpose test systems
- Incircuit tests
- Burn-In tests (24h / 48h)
- Failure analysis and reports
- Repair
- Failure statistics and correction actions
- Bad material handling

Logistics

- Administration of customers materials:
 - incoming inspections
 - booking into customers ERP-system (SAP)
 - returns to the suppliers
 - stock management, etc.
- Labeling & Packaging
- Transportation
- System Maintenance: Failure-Analysis, Repairs
- Statistics

Systems Assembling Examples



Mechanical parts

Systems Assembling Examples



Cables

Systems Assembling Examples



PCBs

Systems Assembling Examples



Systems Assembling Examples

