**TERMINATION**

- Thru hole
- Reverse bare
- Floating fingers / Sculpted circuits
- ZIF Termination

**Lines:** .004" • **Spacing:** .004"  

**Bend Radius (military)**

- Single Metal Layer: 4–6X overall flex thickness
- Double Metal Layers: 6–10X overall flex thickness
- Multi Layer Metal: 12–15X overall flex thickness

**Materials / Tg**

- **Substrate:** DuPont™ Kapton® polyimide flex adhesive and adhesiveless -60°C to 125°C  
- **Cover layer:** DuPont™ Kapton®  
- **Stiffener:** FR4 or DuPont™ Kapton® (metal stiffeners available upon request)  
- **Conductor:** Copper, Aluminum, SS, Constantan

**Surface Finish**

- ENIG • HASL • Immersion Tin and Silver • Soft and Hard Gold

**Specs and Quality Management**

- IPC-6013 Class I, II, III, types 1-3 • ISO 9001, AS 9100

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**FLEX ASSEMBLIES**

**Design Formats**

- PADS • PADS PRO • Pro E / Creo • SolidWorks • Autodesk Inventor • CAM 350 • Altium • Valor • POLAR • Xpedition

**Manufacturing Formats**

- DXF • Gerber • ODB++ • IPC 2581

**Layer Count**

- Max typ. up to 8

**Termination**

- Thru hole • Reverse bare • Floating fingers / Sculpted circuits • ZIF Termination

**Conductor Width/Space**

- Lines: .004" • Spacing: .004"

**SPECIFICATION STANDARDS**

The following tables describe, in brief, Glenair flex and rigid flex manufacturing formats and specifications. Glenair recommends commercial customers understand and adhere to IPC-6012/6013 specification standards which are fully supported by Glenair. Military customers may alternatively cite specifications IAW MIL-PRF-31032.

* Information below is based on the most common materials and physical property requirements. Please consult the factory for alternatives

**Design Formats**

- PADS • PADS PRO • Pro E / Creo • SolidWorks • Autodesk Inventor • CAM 350 • Altium • Valor • POLAR • Xpedition

**Manufacturing Formats**

- DXF • Gerber • ODB++ • IPC 2581

**Layer Count**

- Max typ. up to 8

**Termination**

- Thru hole • Reverse bare • Floating fingers / Sculpted circuits • ZIF Termination

**Conductor Width/Space**

- Lines: .004" • Spacing: .004"

**Bend Radius (military)**

- Single Metal Layer: 4–6X overall flex thickness • Double Metal Layers: 6–10X overall flex thickness • Multi Layer Metal: 12–15X overall flex thickness

**Materials / Tg**

- **Substrate:** DuPont™ Kapton® polyimide flex adhesive and adhesiveless -60°C to 125°C  
- **Cover layer:** DuPont™ Kapton®  
- **Stiffener:** FR4 or DuPont™ Kapton® (metal stiffeners available upon request)  
- **Conductor:** Copper, Aluminum, SS, Constantan

**Surface Finish**

- ENIG • HASL • Immersion Tin and Silver • Soft and Hard Gold

**Specs and Quality Management**

- IPC-6013 Class I, II, III, types 1-3 • ISO 9001, AS 9100

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**RIGID FLEX ASSEMBLIES**

**Design Formats**

- PADS • PADS PRO • Pro E / Creo • SolidWorks • Autodesk Inventor • CAM 350 • Altium • Valor • POLAR • Xpedition

**Manufacturing Formats**

- DXF • Gerber • ODB++ • IPC 2581

**Max Panel Thickness**

- Range of thicknesses from .010" to as thick as .250"

**Layer Count**

- 20 +

**Via Technology**

- Blind, buried • Thru hole • Filled (conductive and non-conductive)

**Conductor Width/Space**

- Lines: .004" • Spacing: .004"

**Materials / Tg**

- **Substrate:** FR4: 180° C

**Surface Finish**

- ENIG • HASL • Immersion Tin and Silver • Soft and Hard Gold

**Specs and Quality Management**

- IPC-6013 Class I, II, III, types 4 • ISO 9001, AS 9100

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