UNACCEPTABLE FOREIGN MATERIAL IN COVERCOAT

Foreign material under the covercoat represents a contamination and reliability concern.

Best Workmanship Practice

UNACCEPTABLE PHYSICAL DAMAGE

Cuts, nicks, gouges, tears, or other physical damage that result in exposed circuitry or reduce electrical separation below minimum requirements are unacceptable.

Best Workmanship Practice

PREFERRED COVERFILM

The coverfilm is smooth, clean, and of uniform thickness. There is no evidence of bubbles, creases, delamination, entrapped particles, gouges, tears, or ripples. Alignment and registration are correct.

Best Workmanship Practice

PREFERRED TRIMMED EDGE

The trimmed edge shall be free of burrs, nicks, delamination, or tears. Minimum edge to conductor spacing shall be maintained.

Best Workmanship Practice

NASA WORKMANSHIP STANDARDS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
JOHNSON SPACE CENTER
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ACCEPTABLE EDGE NICKS
Nicks along the edges of the flexible printed wiring, cutouts, and unsupported holes are acceptable, provided minimum edge to conductor spacing is maintained and damage is within agreed-upon limits.
Best Workmanship Practice

ACCEPTABLE PLATED SURFACES
Plating is uniform, smooth, and shiny. Holes are smooth and clean. No evidence of solder wicking / plating migration.
Best Workmanship Practice

ACCEPTABLE SURFACE ROUGHNESS / SCUFFING
Minor roughness or scuffing of the laminate surface is acceptable, provided the damage does not reduce reliability or interfere with the design of service / operability.
Best Workmanship Practice

ACCEPTABLE TIE-IN TAB TEARS
Minor nicks and tears that result from the use of tie-in tab design are acceptable, provided the damage does not reduce edge to conductor spacing below minimum requirements, or exceed the damage requirement agreement.
Best Workmanship Practice

UNACCEPTABLE CREASES
Creases reduce the current carrying capability and reliability of the printed conductors and the bond integrity of the laminate. Flexible circuits shall exhibit proper bend radius and strain relief.
Best Workmanship Practice

UNACCEPTABLE EDGE NICKS
Nicks along the edges of the flexible printed wiring, cutouts, and unsupported holes which reduce minimum edge to conductor spacing below minimum requirements, or expose conductive surfaces, are unacceptable.
Best Workmanship Practice