

...to decrease TCO (Total Cost of Ownership) by up to 50% from standard circuitry, assembly and wiring.

Flexible Circuitry = Increased Value

Features

- Replacement for a Circuit Board and Wires (quality assembly, lower costs)
- Reduce weight and space (form factor as low as 0.005")
- Flex! It can bend where needed in design.
- White Flex cut costs in half from traditional Kapton Flex
- ROHS Compliant Assemblies

Standard Capabilities

Circuit Construction

- Single Sided
- Doubled Sided

Size

- Quadrilateral designs up to 48" x 36"
- Lengths extend up to 20" x 20' (greater lengths can be reviewed)
- Thicknesses as thin as 0.005"

Line Width and Spacing

- Minimum line width is 0.020" (0.5mm)
- Minimum center-to-center trace spacing is 0.040" (1mm)

Temperature

-60°C to +105°C (-76°F to +221°F)

Power Capability

- Depends on layout. Example: for a 0.040" trace, 100mA max.

Tooling Tolerances

- Soft Tool
 - Outer dimensions ± 0.015 " (special can make ± 0.005 ")
 - Radius corners 0.030" min.
- Hard Tool
 - Outer Dimensions ± 0.003 "
 - Radius corners 0" min. (square)
- Laser Cut
 - Outer dimensions ± 0.005 "
 - Radius corners 0" min. (square)

Surface Mount Technology (SMT)

- Components as small as 0603
- Placement accuracy as tight as ± 0.005 "

Shielding

- Printed silver in a solid or grid pattern

White Flex - Integrated Solutions for Rigid Backer-supported Locations

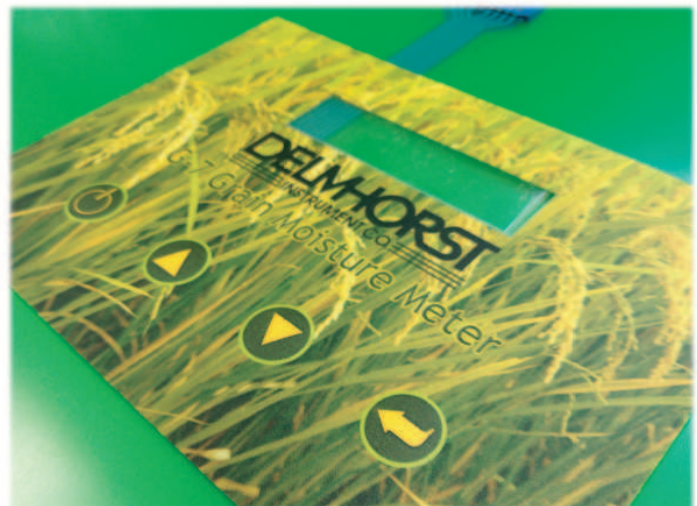
- Linear Potentiometers (absolute position feedback sensors) can be imprinted directly on circuit.
- Embedded resistors can be printed inline (0.001" height).



- Switching can be integrated, included domed tactile feedback for human interface

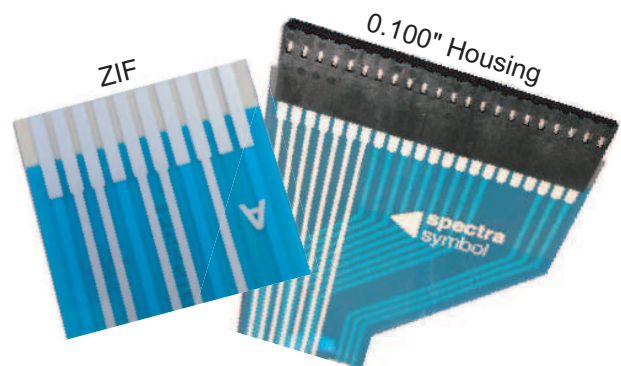


- Visual Graphics can be attached as a front-plate for human interface



Materials

- Polyester 0.004"-0.010" thickness
- 3M 200MP series Pressure Sensitive Adhesives (PSA)
- Flame Retardant Mylar (rating UL 94, VTM2)
- Stiffener: Mylar, CoPoly or Epoxy Glass (FR-4)
- Conductors: Silver, Carbon, Solder Paste, Silver Epoxy
- Horizontal mounting pins: 0.100" and 0.050" centerline crimp for hand solder or for housing attachment
- ZIF connectors with min. 0.040" centerlines



Quality: ISO 9001:2008 Certified
LEAN manufacturing: Kanban, Poke Yoke, Kaizen, Visual Systems
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