

JUNCTION BOX HONEYWELL.

14/11/2015

Concerning the interior of the junction box :

- 1) Is it filled with silicone completely?
- 2) Are the cables secured in a way that when somebody pulls the cables, it cannot cause malfunction or loosen the cables from the circuit board?

Please find below answers from Honeywell team

- 1) Yes, the JBox interior is fully covered with dual component 1533 (A/B) pottant. The Jboxes are attached to the backsheet with sealant type 1527 from Tonson. Both sealant and pottant types used in our modules are from the leading supplier Biejing Tonsan, the dominantly used material types in industry by several players. Please refer the below attached drawing and the grey shadowed area are the pottant coverage. The pottant thus completely covers the internal circuitry, bypass diodes, solder joints, metal plates and cable connection points and offers complete prevention of moisture ingress into the internal components of JBox.
- 2) Jbox termination robustness: This requirement is mandatory test usually covered by the test sequence 10.14, called Robustness of terminations. In type A terminations as in our case of modules offering with flying leads / cables of Jbox, each terminations are tested for a) tensile and (applied force 40N) and b) bending test (in all directions, 10 cycles with 1 bending counted as 1 cycle) as per the standard. The pass criteria of this test sequence require the qualification of visual inspection, max. power degradation < 5% and wet leakage current after this test. A module certified means, the robustness of terminations under severe stress conditions are successfully tested for. BTW, our JBox design cable outlet is designed at 45deg which is an added protection for termination robustness.

