Eagle Traps

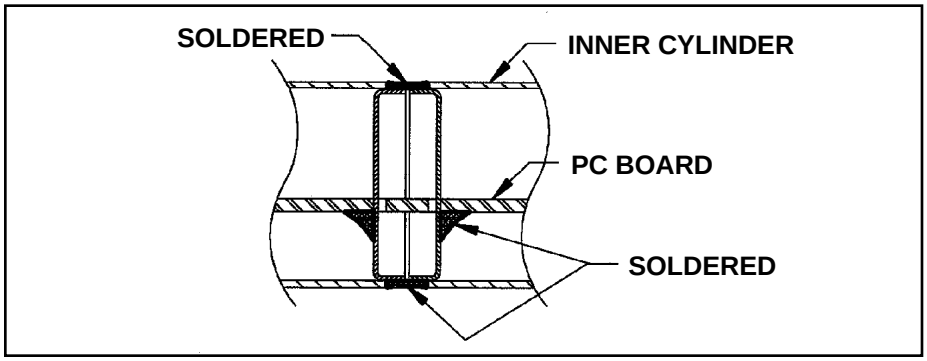
Eagle Comtronics, Inc., began its trap business in 1976, and has since established through numberous designs and innovations, world-wide recognition of its cable television product line. The narrow notch, quality control, repeatability, consistency, moisture seals, and longevity describe the "heart beat" of our traps and filters. These are the areas we continue to research and these are the areas we continue to develop.

For a review of the fundamental critical design characteristics of an Eagle trap, please refer to the attached cross-section diagram.

1. Patented Single Circuit Board

A single circuit board maintains the same critical spacing required between all components, providing more consistent performance for both the active path and for grounding.

Isolation disks are securely soldered to the PC board and also to the inner shield as shown in the illustration below.



The soldered ground path technique provides much more stability to a trap notch over the life of the trap, than the separate cylinder design, held together through a mechanical fit.

2. A plated center conductor discourages corrosion problems from developing between the trap and the collet of the tap.

3. A single channel trap has a very sharp notch which is sensitive to moisture penetration.

If moisture enters a trap, it changes the coupling between poles and begins to shift or degrade the notch. Eagle takes extreme measures in its design and in manufacturing, to produce traps that fully reject moisture.

At the collet end of the trap alone, Eagle installs two weather sealing devices to prevent any moisture ingress from the connector or drop cable.

4. A high performance compression seal is installed at the stinger end of the trap, to reject moisture from the mating port or housing.

5. Two piston type, controlled compression "O" rings seal both ends of the trap to prevent any moisture ingress between the inner body and the outer metal cylinder.

6. Female "F" connector end meets or exceeds SCTE specifications.

7. Male "F" connector end meets or exceeds SCTE specifications.

8. Automated soldering of both the Isolation disks to the inner cylinder as well as between the male-end and inner cylinder, provides unified construction and a permanent ground path to assure stability in the trap notch.

9. Automated closed cell polyurethane foaming expands and packs every cavity of the trap, providing unmatched stability and shock resistance.

10. Patented shift tuning electronically isolates two poles from the circuit while alignment of the other two poles are conducted, providing deeper notches, consistency and much more accuracy.

11. Patented Double "D" sleeves are found on all Eagle traps. This prevents any rotation of the outer sleeve while installing or removing the trap, thus eliminating any compromise to the "O" rings and built-in moisture protection.

12. A special high copper brass alloy outer sleeve eliminates concerns over cracking or damage to the outer trap shell, assuring total moisture rejection for better performance and stability.

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Pub No. 596-3 Printed in USA