

Would You Risk Your Entire Network To Save A Few Cents On A Splitter?

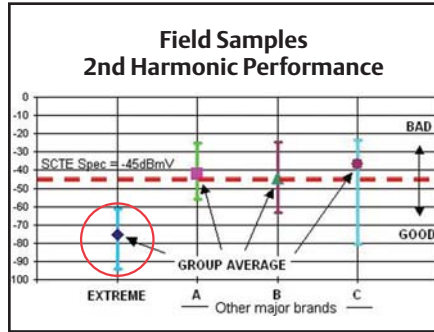


A Cable Plant Costs Tens Of Thousands Of Dollars Per Mile To Build.
Advanced System Diagnostics Show That Quality Splitters Save Money
By Improving Network Performance And Reducing Service Calls.

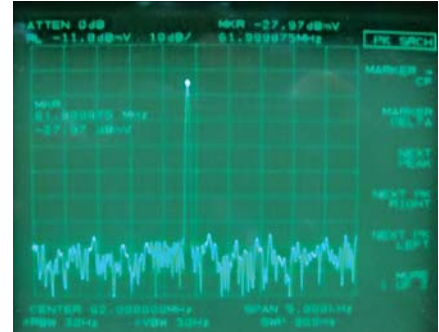
Linearity Is Essential For A Reliable Network

How can you be certain the splitters you buy and install today won't become a liability tomorrow, creating significant and unnecessary service costs for your network?

In field tests of products in service for over three years, Extreme Broadband splitters consistently maintained their intermod linearity. The explanation lies in the high quality design and construction of the total package.



Sample groups of splitters taken from active service show that Extreme's splitters consistently exceed the SCTE specification, compared to three other major brands.

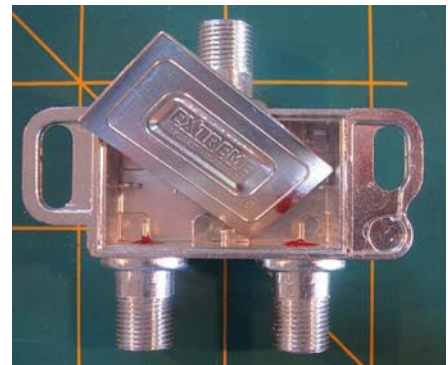


Distortions, caused by modem transmission impact on splitter non-linearity, contaminate the upstream and downstream spectrum and interfere with subscriber signal fidelity.

Quality Design

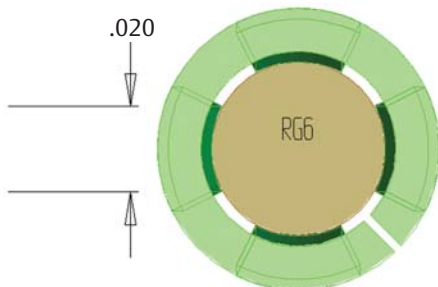
At Extreme Broadband, quality begins with a well-made housing. The primary elements of the housing are the base metal, the tooling, the plating and the finish.

- **Base Metal & Plating:** Zinc alloy is plated with tin to make the housing electrochemically compatible with the connectors. The back plate is also cast from the same base metal. Tin plating assures the most dependable surface for soldering the back plate to the housing.
- **Tooling & Finish:** The tooling is highly polished to render a smooth finish. It is also designed to eliminate parting lines along the ports for an optimum weather seal. Sand blasting of the casting is not allowed since it increases the surface area substantially. A smooth finish resists micro-pooling of environmental agents that can attack the surface.

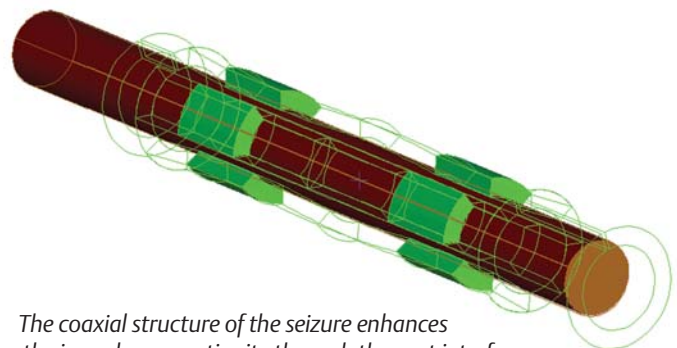


A channel between the back plate and the housing creates a solder well to ensure reliable EMI containment.

Our Circumference Premium™ contact inside the F connector is a critical component for signal integrity. Multiple digital contact areas increase the reliability of the connection between subscriber and network.



The curvature of the seizure conforms to the surface of the coaxial cable center conductor, maximizing contact area.



The coaxial structure of the seizure enhances the impedance continuity through the port interface.

Quality Components

Quality components begin with the right materials. The primary components in Extreme Broadband's passive devices consist of:

- Low-intermod ferrite inductors
- HV epoxy-coated ceramic capacitors
- Surface mount resistors

The ferrite material that forms the core of the RF transformers is a highly complex ceramic. The linearity of the signals passing through these transformers can easily be degraded by the wrong blend of ferrite materials. This is where the real differences in splitter performance lie.

Perhaps even more important than the components themselves, is the circuit board layout. In our circuit boards, the signal path is carefully tuned to optimize the efficiency of the signal transmission at each component interface.



Our circuit boards are carefully laid out using surface mount technology for more robust signal paths.

Quality Manufacturing



The quest to make the highest quality splitters possible, doesn't stop at design and components. Quality in manufacturing is critical too, and requires dedication and skill. Our production teams work closely with our engineering experts to optimize the assembly process so that every splitter we make not only meets our high standards, but yours as well.

Every unit is carefully tuned and tested individually using a network analyzer.

Count on Extreme Broadband to deliver top quality splitters that reduce your maintenance costs and help to maintain your reputation as a reliable service provider.

**Extreme Broadband products are
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