Subject: Re: Stuffing thickness
Posted by Bill Fitzmaurice on Thu, 12 Aug 2004 11:35:58 GMT
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If the line is not completely stuffed throughout its length it will not perform as a transmission line; I'm not familiar with the design in question, but the lack of full stuffing makes me question it.A transmission line by dint of its design will develop a number of resonant modes throughout its length; it is critical that those modes be damped with stuffing or the response curve will be quite erratic. When properly stuffed a transmission line will have a smooth frequency response with no internal reflective modes and an impedance sweep will show a single impedance peak at the line frequency with no peaks anywhere else. Without adequate stiuffing it will exhibit numerous impedance peaks and the response will also be marred by a series of peaks and dips.