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Subject: HV cable problem

Posted by [Clemens Adler](#) on Tue, 19 Oct 2004 12:40:26 GMT

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Hello everybody,

we're having problems with one roll of the HTC 50-1-1 HV cable (CERN stock) that was distributed to also the other production sites.

Recently we had more and more problems that chambers would not be stable in the first HV test (in air before HV cables and wires solder joints are covered with glue). At first we thought that the preparation of the cable (i.e. removing isolation etc.) was not done good enough. Now we have a couple of cables that where tested without being connected to anything (e.g. a chamber), and they break down early: already at ~1,2kV very strongly fluctuating currents appear (jumping up to several microampere then going down again to some 10-100 nA). With a different roll of this cable this is not the case (and it was not with the beginning of the 'bad' roll).

Question: has anybody sees such a behaviour before with this type of cable?

and a recommendation to all production sites: please check with just a piece of this cable that it actually holds HV. If other rolls are also bad, we'll have to ship new ones (we still have some rolls at Heidelberg).

cheers,  
Clemens

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