

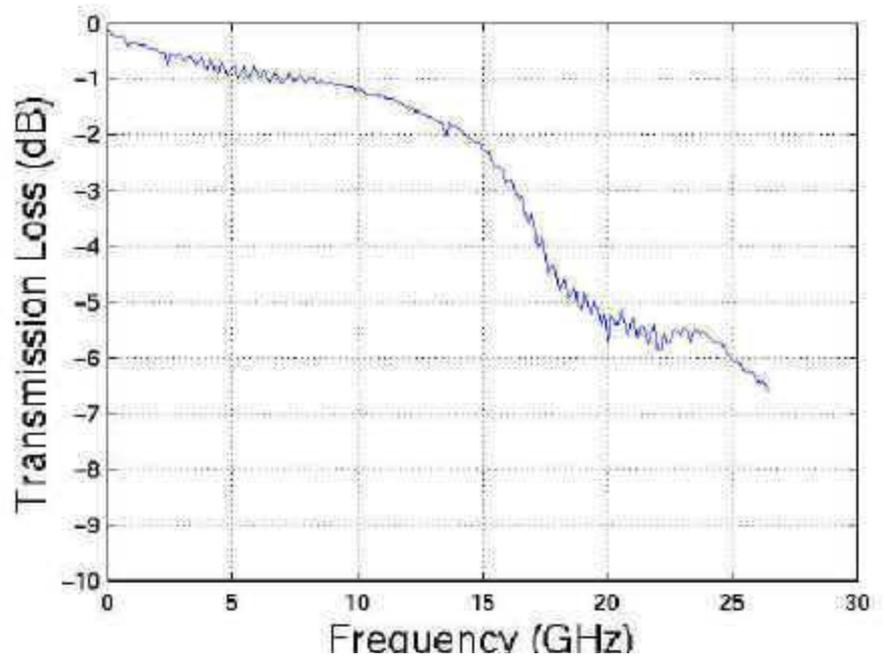
1. Flexible Cables (from website <http://home.wxs.nl/~alphe078/contents.htm>)

Flexible cables (RG-316) with SMA plugs are frequently used for the microwave bands.

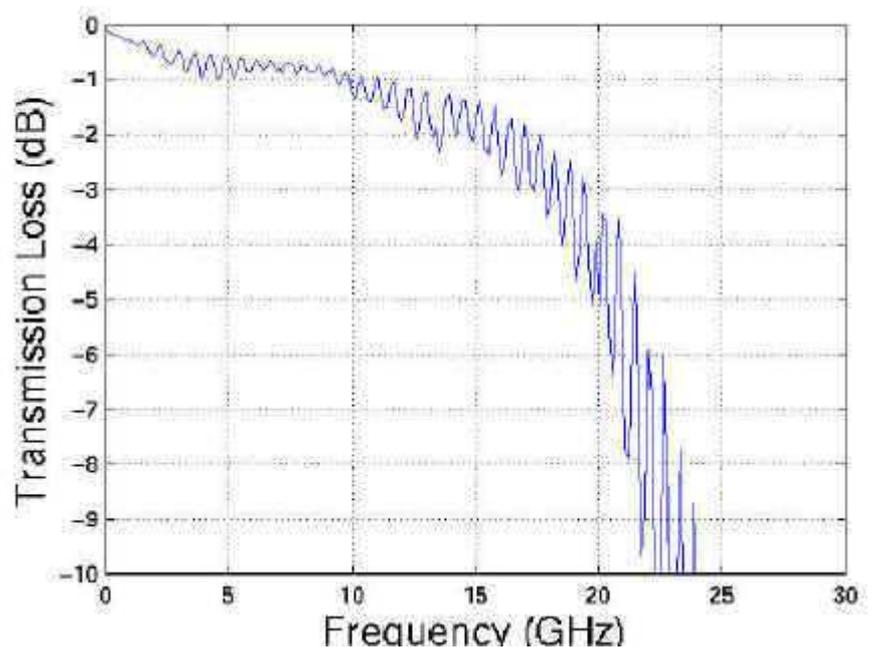
The following results were obtained when these cables were measured with a network analyser.



Cable with straight plugs, length: 26 cm
Cable with straight plugs, length: 26 cm



Cable with right angle plug, length: 17 cm



Note: More cables of this kind have been measured, with about the same results as indicated.

Conclusion: The measured losses of this type of flexible cable are more or less as was expected. Using this type of cable at frequencies up to 5 GHz should be done with care; in non-critical situations like the supply of the LO on 10 GHz, the attenuation can be accounted or compensated for. Measurements of the cable with the right angle cable plugs show that this type of connector introduces significant impedance changes.