

## CABLE COUPLING CLAMP CCC01

The Cable Coupling Clamp (CCC01) has been designed to allow measurements to be made on a range of cable types, for the purpose of assessing their coupling and shielding effectiveness properties.

The design is based on the details of the possible launcher arrangement, described in IEC 96-1 Amendment 2 1993-06 section A.5.6 *Line Injection Method (frequency domain)*.

### DESCRIPTION

Figure 1 below shows the test set up for the line injection method for measuring screening effectiveness of RF cables as specified in IEC 96-1.

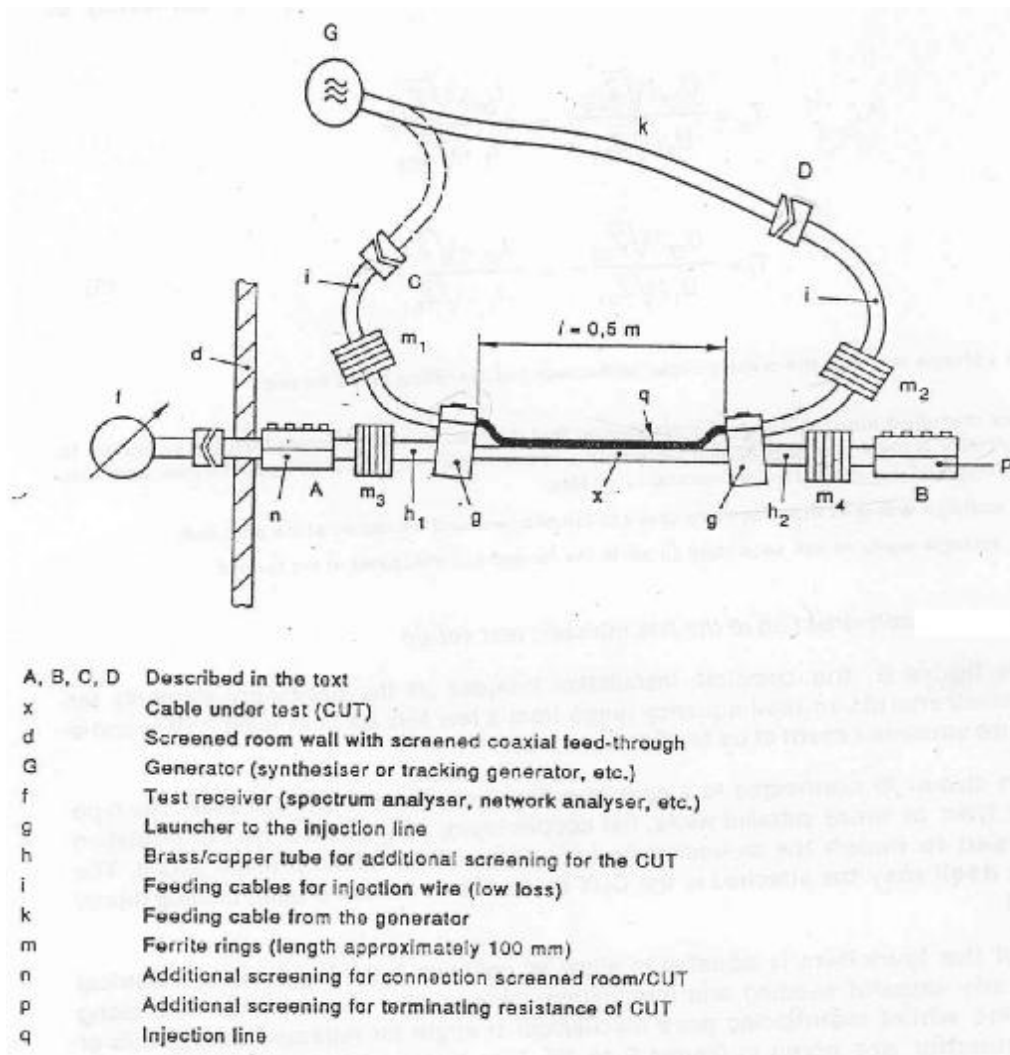


Figure 1 – Line Injection Test Set Up

The CCC01 comprises: launchers (g); injection line (q); injection line feeding cables (i); ferrite rings (M1 and M2 only); plastic cable guides and a base plate. The cable under test (CUT) and parts associated with its construction are not supplied. A complete CCC01 assembly is shown in Figure 2.



Figure 2: CCC01 Assembly

Plastic cable guides for the CUT are supplied; these facilitate the mounting of the CUT and positioning of the ferrite rings M3 and M4 (not supplied). The use of the CUT cable guides is illustrated in Figure 3 where the CCC01 is shown with a CUT in place ready to test.

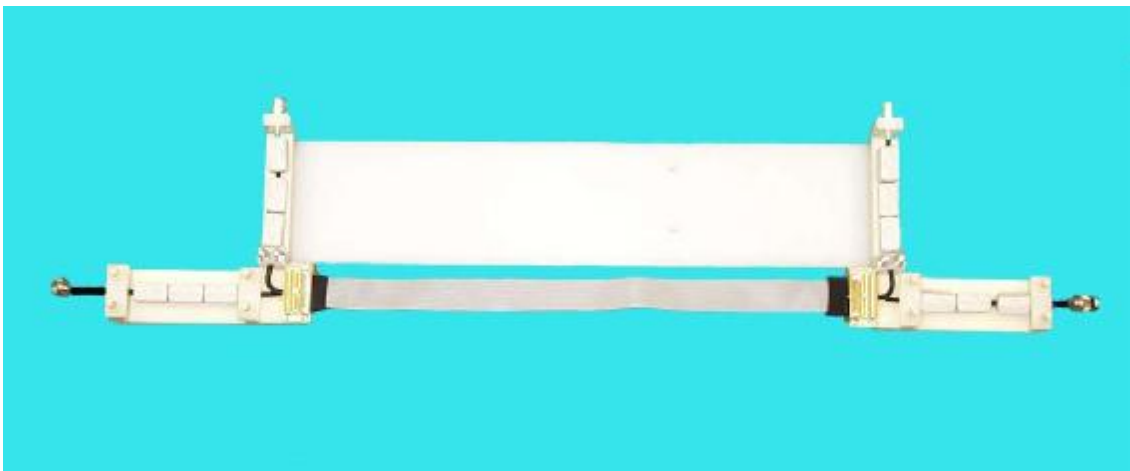


Figure 3: The CCC01 shown with a CUT in place ready to test.

The plastic base plate is designed to allow cable length settings of 0.3m (EN 50289-1-6) and 0.5m (IEC 96-1). The Figures show the CCC01 in its 0.5m setting.

The launchers (g) are supplied with inserts to allow CUT sizes of 2.5mm, 5mm and 10mm diameter. Corresponding clamps for the cable runs are also provided.