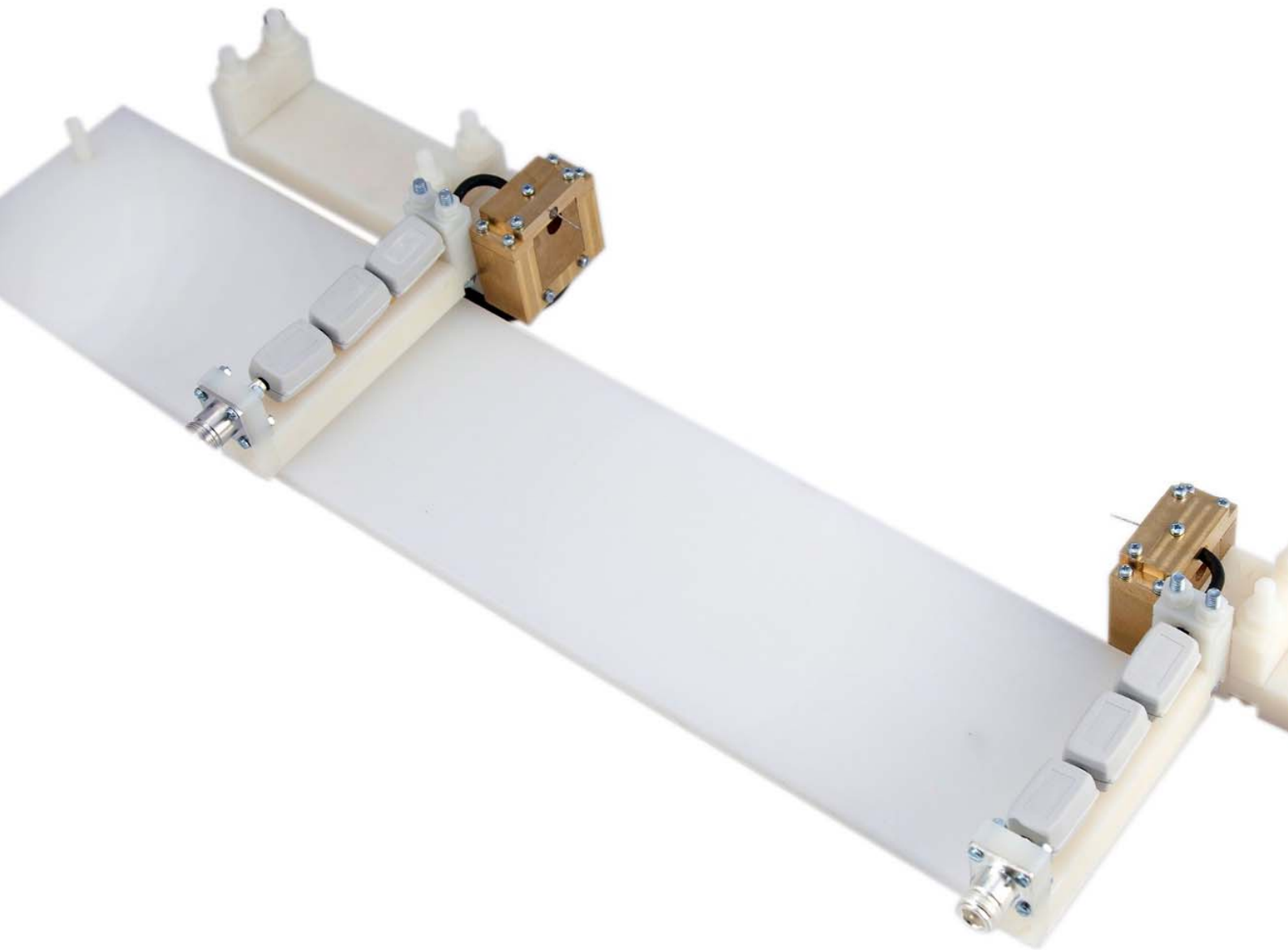


CCC 01 Cabling Coupling Clamp



Product Technical Information

Cable Coupling Clamp: CCC01

The Cable Coupling Clamp (CCC01) is a reusable test jig for the purpose of measuring the shielding properties of cables. The CCC01 is designed to allow easy positioning of the test and injection feed cables in accordance with the layout described in IEC 96-1 Amendment 2 1993-06. This simplifies the process of making repeatable measurements aimed at assessing the coupling and shielding effectiveness properties of a wide range of cables.

The CCC01 design is based on the details of the "launcher" arrangement, described in IEC 96-1 Amendment 2 1993-06 section A.5.6 Line Injection Method (frequency domain). This arrangement is also used in IEC 62153-4-6: 2006 and mandated for the line injection method in EN 50289-1-6.



CCC01

Features

- **Fixed cable routes**
 - Repeatable layout of test and injection cables
- **Cable injection assemblies**
 - Injection cable runs are supplied preassembled and fitted with ferrite common mode chokes
- **Supports a range of test cable sizes**
 - 2.5 mm, 5 mm and 10 mm aperture cable supports provided as standard. Cable dimensions up to 22 mm x 13 mm are possible with the user-machinable fitting accessories.
- **0.3 m & 0.5 m test lengths**
 - Base plate allows the injection assemblies to be mounted either for a 0.3 m cable length (EN 50289-1-6) or the extended 0.5 m length (IEC 96-1) for increased coupling distance
- **Configurable injection conductor**
 - Self-adhesive copper tape, easily trimmed to the correct width required according to the circumference of the cable under test
- **Easy connection to test system**
 - Injection cables are terminated in N-type connectors

Applications

- **Cable shielding effectiveness measurements as indicated by:**
 - IEC 96-1 Amendment 2 1993-06
 - IEC 62153-4-6:2006
 - EN 50289-1-6
- **Investigation of cable coupling phenomena**

Specifications

Frequency range	10 kHz to 1 GHz typical (usable to higher frequencies, depending on the cables being tested and application of the test)
Output connectors	50 Ω N-type sockets
Cable sizes	Approx. 2.5 mm to 10 mm diameter using the three sets of fittings supplied. User-machinable fittings available as accessories, supporting maximum cable dimension of 22 mm x 13 mm (rectangular cross-section) or 13 mm (diameter)
Dimensions	220 mm x 880 mm (0.5 m test setting) 220 mm x 740 mm (0.3 m test setting)
Weight	3 kg (typical excluding cable-under-test and any associated ferrites)

Standard kits

Part Number Description

CCC01KIT01 Standard CCC01 cable coupling clamp kit

Parts included

- Pair of preassembled cable injection assemblies
- Base plate with mounting positions for 0.3 m and 0.5 m cable test lengths
- 2.5 mm, 5 mm and 10 mm diameter cable mounting fittings
- Additional clip-on ferrite chokes
- Self-adhesive copper tape (signal injection conductor)
- Hard case for injection assemblies and accessories
- Manual

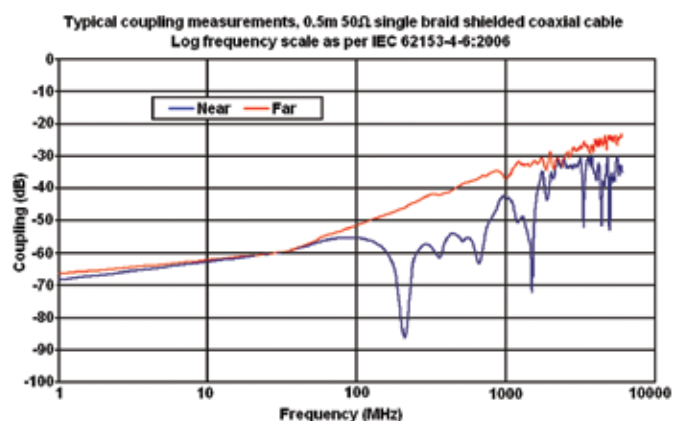
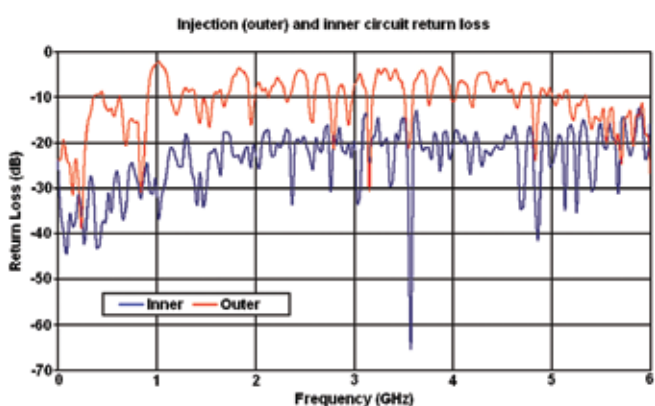
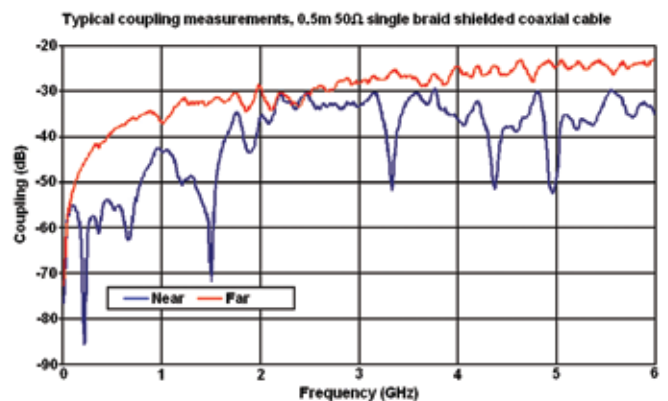
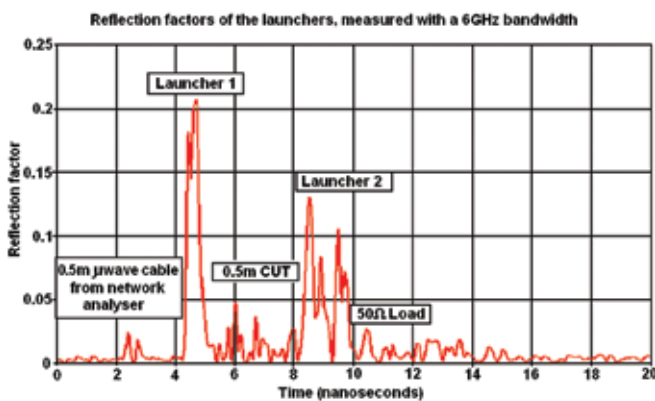
Note: We are unable to supply the cable under test (CUT), any parts associated with its construction and any ferrite rings to be fitted to it.

Accessories

CMF01 Kit of user-machinable blank fittings for custom cable apertures (single cable)

Special Contact us for information regarding our testing service for cables to both IEC 96-1 and EN 50289-1-6, using the CCC01

CCC01 Example results



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one of our offices, or visit us online

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Market Square
University of York
Heslington, York
YO10 5DD

Tel: +44 (0) 1904 324440
Fax: +44 (0) 1904 324434

Three Lane Ends
Business Centre
Methley Road, Castleford
WF10 1PN

Tel: +44 (0) 1977 731173
Fax: +44 (0) 1977 603181

46 Waverley Road
Beeches Industrial Estate
Yate
BS37 5QT

Tel: +44 (0) 1454 326998
Fax: +44 (0) 1454 326930

Unit 1
Grangemouth Technology Park
Earls Road, Grangemouth
FK3 8UZ

Tel: +44 (0) 1324 469000
Fax: +44 (0) 1904 324434