

## Conducted RF Application Note 02

### Testing Requirements Single Phase Mains to IEC61000-4-6

To perform a single phase test you will need :

RF Signal generator  
Amplifier  
CDN (see below)  
Ground Reference Plane  
150Ω/50Ω termination

CDNs available for single phase mains networks include :

- **M1** used in the earth cables of an installation rated up to 2A.
- **M2** can be used for simultaneous coupling into neutral and phase wires rated up to 16A.
- **M3** used for simultaneous coupling into all three wires of a 16A single phase system
- **M2/3** has a switchable path to allow testing either into 2 or 3 wires of a single phase system.

The following diagram illustrates a single phase test set-up using an M3 network.

