



CDN 126

SCHAFFNER TESTEQUIPMENT

2 Equipment description

This device enables burst pulses to be coupled into an item of equipment under test (EUT) without an electrical connection to its inputs or outputs, the screened sheathing of associated cables or any other part of the EUT.

The coupling capacitance between the coupling clamp and the cable inserted in it depends on the cable diameter, material and the screening (if any).

The CDN 126 consists of a 1m long, metallic clamp designed to accommodate the cable to be tested. The return path is provided by a reference panel placed under the clamp. The configuration conforms with IEC 1000-4-4 (corresponding to IEC 801-4).

The typical coupling capacitance achieved between the cable and the clamp is 50 to 200 pF.

The coupling clamp is necessary for acceptance tests on I/O and communications ports. Mains inputs can also be tested, however, in cases where the direct coupling networks cannot be used.

The CDN 126 has an integral monitoring facility on its top cover. The generator's interlock circuit is opened when the lid of the clamp is lifted thereby inhibiting the operation of the generator. The interlock system used conforms to the Schaffner "ProfLine" concept. An adapter enables the clamp to be used with the interlock facility of the earlier models of NSG 2025 generators (serial no. < 500).

6 Specifications

Function: Capacitive coupling clamp in accordance with IEC 1000-4-4

Typical coupling capacitance between cable and clamp: 50 to 200 pF

Suitable for round cable with a diam. of: 4 to 40 mm

Insulation test: 5 kV (1.2 / 50 μ s pulse)

Max. permissible burst voltage: 4.5 kV

Max. permissible spike rate: 1500 per sec

EMC: This device is purely passive. It does not need a separate EMC certificate.