

LINE ISOLATING UNIT 3C



PRODUCT HIGHLIGHTS

- Designed for Hot Site installations
- Provides 20kv RMS isolation
- POTS functionality
- 240v AC or 48V DC power supply
- The unit supports loop-start and ground-start signalling
- Compact sealed unit
- Provides high voltage isolation for analogue lines
- DTMF and Pulse Dialling
- Support for 50Hz meter pulses
- Suitable for Telco's, Utility companies and Rail Networks.

The cost to organisations of losing their communications links and damage to their telecommunication equipment can be very high and has driven the need for protection devices, which provide Isolation of wire-line in the event of high voltage surges or rises in the ground potential.

Standard electrical protection methods, such as gas tubes or solid-state devices are ineffective in protecting equipment from Ground Potential Rise. These devices are normally placed at each end of a communications network and are designed to direct foreign voltage impulses into a grounding system. During a ground potential rise, these devices merely offer an additional path to remove ground references, and actually provide a path for current to flow in the reverse direction from which they were intended to operate. The only effective protection scheme against Ground Potential Rise is an Isolation device.

Kenton understand what is required to design and implement a safe and effective protection scheme, and have been providing isolation devices into major telecommunications companies for over 10 years.

Kenton manufacture a range of Wire-Line isolators that use state-of-the-art technology to isolate and protect telephone facilities and personnel from the hazardous voltages associated with Ground Potential Rise. The wire-line isolator breaks the copper continuity of the communication line as it enters the building, thus eliminating the conductive bridge. It acts as a dam between the site and exchange, whilst allowing all of the communication signals to pass through transparently but preventing any fault currents from passing onto the lines.



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SPECIFICATION

Isolation:

- 20kV AC

Characteristics to Line:

- Impedance BS complex
- Input volts 10 to 60V DC
- Idle current <200µA
- Active current 8 to 50mA
- Ring detect 30V, 25 to 50Hz

Characteristics to Equipment:

- Impedance BS complex
- Open circuit feed volts 50V DC
- Off-hook detect 8mA
- Ringing volts o/c 50V RMS, 25Hz

Direct Exchange Line type & Features:

- Loop calling
- Earth calling
- Prepay payphone
- 50Hz meter pulses
- DTMF dialing
- Pulse dialing

Power:

- 207 to 253V AC, 30mA and/or
- -40 to -60 V DC, 80Ma

Speech Level:

- 0dB
m

Insertion Loss:

- Selectable 1dB or 3dB

Frequency Response:

- +/- 1dB 300 to 3300Hz

Size:

- 225 x 180 x
60mm

Weight:

- 1 kg

Meets the requirements of:

- EMC Directive 89/336/EEC: emissions to BS EN 55022: 1998 class B, immunity to BS EN 55024: 1998.
- Low Voltage Directive 73/336/EEC: safety to BS EN 60950: 1998
- BT Spec. D2966C



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