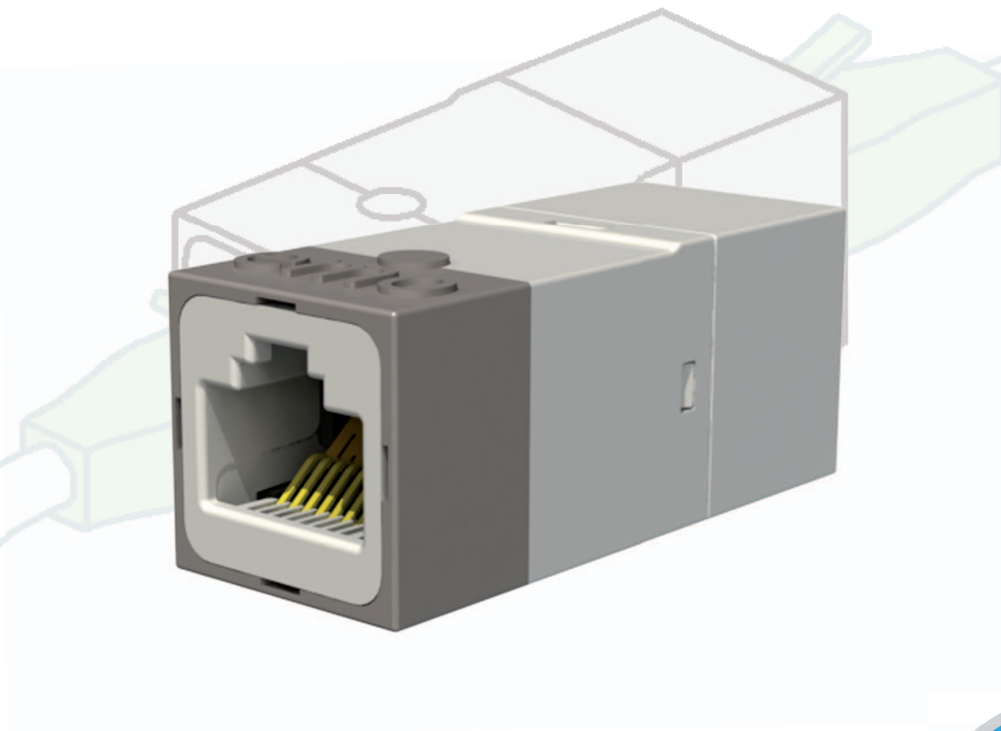# Network Isolator EN-70e

Part number: 312 980-01

Network isolator for the galvanic interruption of Ethernet interfaces of medical electronic devices and systems

IEC 60601-1 **3rd** Edition

Gigabit network isolator EN-70e, plug-in type, ultracompact, 10/100/1000Mbit/s, dielectric strength 4 kV, additional TVS overvoltage protection, good Ethernet performance, meets the requirements of IEC 60601-1 (3rd Edition) for 2 MOPP based on a maximum mains voltage of 250 VAC, UL approved (E249126)

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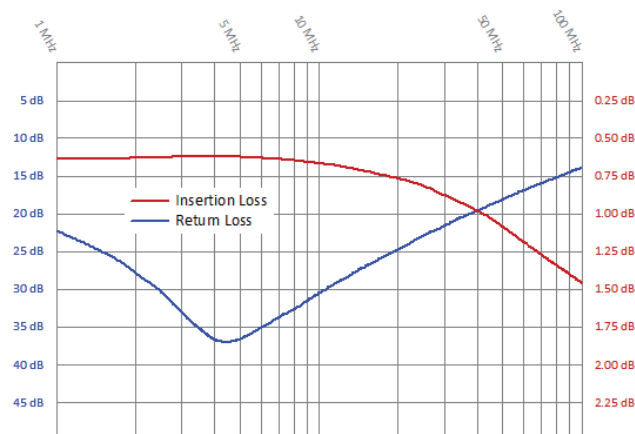
versatile innovative experienced

Description

The EN-70e network isolator interrupts all galvanically conducting connections (signal lines and shield) between devices which are connected together via copper Ethernet cabling, meeting all the requirements of **IEC 60601-1**. It prevents potential equalising currents and protects connected devices and their users from transient excess voltages which, through installation errors, lightning strikes, switching operations, electrostatic discharge, etc., have been coupled directly or inductively into the network. The EN-70e offers good Ethernet performance with low attenuation and return loss. An installation of drivers is not necessary and no power supply is required.

Features and advantages

- Ultracompact
- Gigabit Ethernet
- 4 kV AC dielectric strength
- Conforms to IEC 60601-1 (3rd Edition)
- Suitable for devices with a supply voltage up to 250 VAC
- Offers two means of patient protection (MOPP) according to IEC 60601-1 [1]
- CE, UL, ROHS, Reach approved component

Frequency response

Application

The EN-70e network isolator meets the requirements of IEC 60601-1 (3rd Edition) and IEC 60601-1-2. It is ideally suited for the galvanic interruption of Ethernet interfaces of medical devices and systems. Thereby, patients, operating personnel and the attached devices are optimally protected.

Installation instructions

The EN-70e network isolator is designed for data transmission in the frequency range of 0.3 to 100 MHz. Lower frequencies are strongly attenuated. For this reason, it is generally not possible to transmit the signals from nurse call systems, telephone systems or analogue audio / video signals over a network isolator.

The EN-70e network isolator can be used in a Power over Ethernet (PoE) network without restriction (however PoE devices downstream of the electrical isolation are not supplied with power).

Dimensions

All dimensions in mm