High-end network isolator

EN-70HD-K / EN-70VD-K

Surge protection and galvanic isolation in one compact Keystone module

High-end network isolator EN-70HD-K, 180°

High-end network isolator EN-70VD-K, 90°

Description

Very compact 1-gigabit network isolator in Keystone module construction.
Suitable for device installation or permanent installation.
Can be used in any Keystone-compatible openings (duct mounted faceplates or patch panels).
Provides a RJ45 jack on both sides, therefore acts as a coupling.
Existing Keystone installations can be easily retrofitted.
Meets the performance requirements of TIA 568 Cat. 5e and ISO 11801 Class D in the Permanent Link.

Application

In medical technology, recording studios and measuring technology as well as in the potential-free connection of remote computer systems.
Galvanic isolation of any device connected to a copper-based Ethernet network (wires and screen).
Suppresses potential equalisation currents and protects connected devices from network voltage surges which can be caused by incorrect installation, ageing and moisture at the network interface.
Also suppresses inductively coupled currents which can be caused by switching operations or lightning strike.
Attenuates low-frequency signal components so well that it effectively prevents ripple pickup in connected devices.

General Properties

Atmospheric humidity	0.1 - 0.9 %
Barometric pressure	500 - 1060 hPa
Lead-free	Yes
Operating temperature	-40 °C - +70 °C
RoHs compliant	Yes

Electrical properties

Electric strength	5000 VAC at 50 Hz (1 min.), 8500 VDC
Insertion loss	< 1dB (1 MHz < f < 100 MHz)

Standards

CE certified	Yes
Medical electrical equipment standard	IEC 60601-1
UL marked	E249126, E36269

Versions

Material number	Product	Outer dimensions	Weight [kg]	Packing unit
417918	High-end network isolator EN-70VD-K 180°	23.5 mm x 17.3 mm x 39.9 mm	0.03 kg	1 pc.
417919	High-end network isolator EN-70VD-K 90°	23.5 mm x 17.3 mm x 39.9 mm	0.03 kg	1 pc.