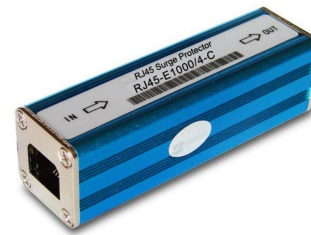# FL45-1000

1000M Ethernet Surge Protector

Features

1. IEC61000-4-5 and ITU-TK20&K21

2. The high response surge arresters

3. Clamping voltage and low loss against high speed signal

4. Designed by theory of current limited and voltage clamped, discharged to ground

5. Standard:10Base-T/100Base-TX/1000Base-TX

Introduction

IEC61000-4-5 and ITU-TK20&K21 are the recognized standards for top quality surge protectors, FL45-1000 made by the high response surge arresters, the advantage allow clamping voltage and low loss against high speed signal, because it had a low capacitance. Designed to protect data communication lines in local and wide area networks up to 1000Base-TX transmission speeds.

Circuit diagram

FL45-1000 is designed by the theory of current limited and voltage clamped, discharged to ground. When the data line exist surge, the FL45-1000 is induced and worked ,the lightning energy is discharged to ground, and the high surge voltage is clamped to low level, so our devices is protected.
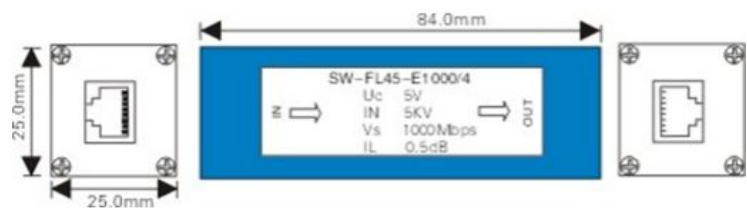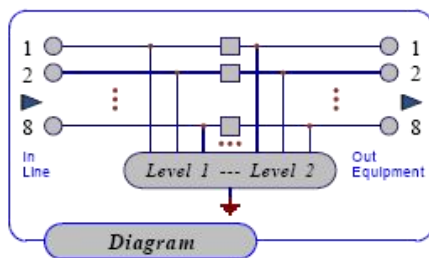
Dimension

Specification

Standard: 10Base-T/100Base-TX/1000Base-TX standard	Storage temperature:-25 to 85°C
10/100/1000M signal: IEC6100-4-5 and ITU-TK20&21	Humidity: Relative humidity 5% to 95%
Nominal discharge current(In):5 KA(8/20μS)	No power supply needed, No consumption
Working voltage: 0-5V	L×W×H: 72mm×42mm×25mm
Limit voltage: ≤40V	Shell: Alnico
Apply Band rate: 1000Mbps	Color: Blue
Connector: RJ45 (F)	Weight: 10g
The line of protection: 4 lines (1, 2, 3, 6)	**Warranty: 5 years**
Insert consumption: ≤0.5dB	**Approvals: FCC, CE, RoHS approvals**
Delay time: ≤1ns	
Working temperature:-20 to 60°C	

Applications

Usually the FL45 is used in protecting the following devices:

1 .Ether net Exchanger   2 .Ether net HUB

3 .Router   4 .Computer

5 .Indus trial control devices   6 .Net server for Video system

Packing List

1. Ethernet Surge Protector FL45-1000 × 1

2. User manual × 1