



# DINRAIL COMBINATION PROTECTOR

Offers cost-effective protection for twisted pair signal line, coaxial video line and power line in a single protector

- ◆ **Signal line, coaxial line and power line protection in one single protector**
- ◆ **Multi-stage protection offers exceptional safe**
- ◆ **All mode protection**
- ◆ **Full range of voltage**
- ◆ **Engineered for easy installation**
- ◆ **Five years warranty**



## Signal line, coaxial line and power line protection in one single protector

-The DCP series of protectors offer a flexible surge protection for any twisted pair signal line together with coaxial line of video signal and power line protection. It is the most cost effective and space saving solution for the most demanding protection requirements.

## Multi-stage protection offers exceptional safety

-Each of the three protected lines in DCP series employed sophisticated hybrid circuitry by using a combination of high energy gas, MOV discharge tube, ultra fast diodes and SAD which ensures excellent protections without impeding normal operation.

**All mode protection** -DCP protectors offers all mode (transverse and common) and repeated surge protection for the power line, video line and signal line.

**Full range of voltage** -Any kind of control, communication or automation lines, DCP series of protectors has the suitable voltage models to fulfill users' expectations. They can be used in fire

and security systems, PLC, railway signalling, computer communications, SCADA and any other signal voltage.

## Engineered for easy installation

-The wiring are done by a plugable terminal strip for easy installation and service. The protectors can be easily secured onto a standard Top Hat DIN rail.

## Five years warranty

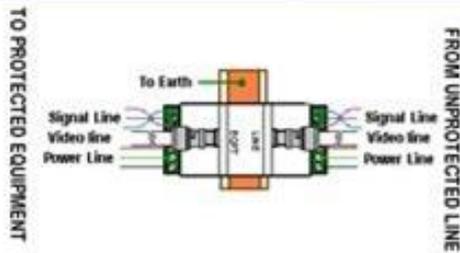
-All LEPS protectors are tested to comply with many international safety standards and with five years warranty.





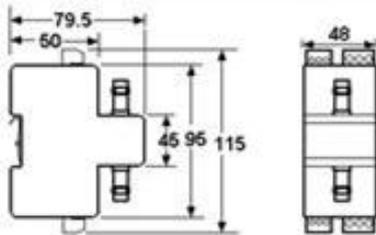
# SPECIFICATIONS AND DRAWINGS

## Installation



For detail installation requirements, pls refer to relevant user manual.

## Dimensions



## Ordering Information

MODEL	MAX. WORKING VOLTAGE		LET-THROUGH VOLTAGE	
	Signal line	Power line	Signal line	Power line
DCP-V5/12	7V	16V	10V	30V
DCP-V5 /24	7V	30V	10V	50V
DCP-V5 /110	7V	130V	10V	450V
DCP-V5/220	7V	280V	10V	750V
DCP-V12/12	17V	16V	23V	30V
DCP-V12/24	17V	30V	23V	50V
DCP-V12 /110	17V	130V	23V	450V
DCP-V12/220	17V	280V	23V	750V
DCP-V24/12	34V	16V	43V	30V
DCP-V24/24	34V	30V	43V	50V
DCP-V24 /110	34V	130V	43V	450V
DCP-V24/220	34V	280V	43V	750V
DCP-V48/12	68V	16V	79V	30V
DCP-V48/24	68V	30V	79V	50V
DCP-V48 /110	68V	130V	79V	450V
DCP-V48/220	68V	280V	79V	750V

### Notes:

- (1) The "V5", "V12", "V24" and "V48" in the above model number means the nominal voltage of the signal line are respectively 5V, 12V, 24V, and 48V. (2) The "I12", "I24", "I110" and "I220" in the above model number means the nominal voltage of the power line are respectively 12V(AC or DC), 24V(AC or DC), 110V(AC) and 220V(AC).
- (3) Other coaxial line connector type is available on request. (4) Other power line voltage is available on request.
- (5) The standard connector type of the coaxial line is BNC female to female, if male to female is required, please add "MF" at the suffix of the model number.

## General Specifications

### Power Line:

Max. surge rating:	10KA(8/20μs)
Earth leakage current:	<0.2mA
Efficiency:	99%
Voltage drop:	<2V (at full load)
Terminal type & capacity:	pluggable terminal strip, 2.5mm

### Signal Line:

Max. surge rating:	20KA(8/20μs)
Max. data rate:	20Mb/s
Max. Operating current:	300mA
Insertion loss:	<1dB at 20MHz
Earth leakage current:	<5uA
In line resistance:	3.9Ω
Connector type:	pluggable terminal strip

### Video Line:

Max. surge rating:	20KA(8/20μs)
Max. working voltage:	8V
Let-through voltage:	14V(at 5kv, 10/700μs)
Insertion loss:	<1dB at 20MHz
3dB frequency:	20MHz
Cable impedance:	50Ω , (75Ω available)
Connector type:	BNC female to female (other types available)

### Common specifications:

Response time:	<5ns
Protection modes:	common and transverse
Protection stages:	3 stages
Earth connection:	DIN clip
Enclosure material:	Anodized aluminum
Operating temperature:	-40-85°C
Humidity:	0-95%(R.H.)
Altitude:	0-3650m
Weight:	~310g

