

### KP1-VDSL

#### Krone Protector

The Novaris KP series of products are suitable for telephone and signal line protection for termination systems utilising KRONE™ LSA-PLUS 10-way connection blocks.

#### Telephone and Signal protection

The KPx-T devices are designed for protecting PSTN and digital PABX signals with a maximum line voltage of up to 200V.

The KPx-xxDC product range has been engineered to protect all common signalling systems. A single KP10-xxDC can be used to efficiently protect up to 10 signal pairs.

The KP10-VDSL provides protection for the highest VDSL2 signals with minimal attenuation and a 3dB frequency of 70MHz.

#### Two Stages of Protection

Standard KRONE™ surge arresters only provide a single stage of protection which cannot prevent equipment from being exposed to excessive voltages during a surge event. The KP series of products utilise a two stage protection approach that keeps the voltage let through to an absolute minimum.

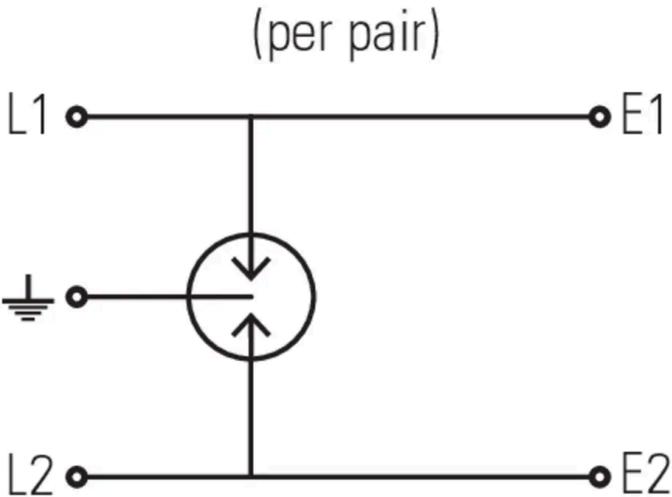
#### 1 Pair and 10 Pair Configurations

Choose your protection width based on the number of lines you need to protect.

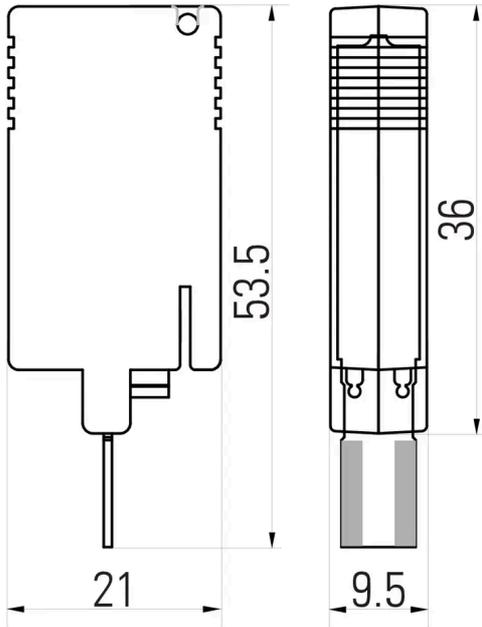


Image for illustrative purposes only

### Wiring



### Dimensions



## Product Datasheet

## Electrical Specifications

Connection type		Series
Number of lines		1 pair
Modes of protection		Transverse and Common
Maximum continuous voltage (DC)	$U_c$	200V
Maximum continuous voltage (AC)	$U_c$	140V
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	5kA
Maximum common mode discharge current (8/20 $\mu$ s)		10kA
Impulse durability C2 10x8/20 $\mu$ s		5kA
Maximum load current	$I_L$	250mA
AC durability 5x1s		1A rms
Overstressed fault mode		Mode 3
Response time	$t_A$	<25ns
Line resistance		0.2 $\Omega$
Insertion loss @ 150 $\Omega$		<0.5dB @ 20kHz
3 dB Frequency @ 150 $\Omega$		70MHz
Earthing		Krone LSA-Plus

## Other Specifications

Product Code		KP1-VDSL
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## Electrical (L-L) Specifications

Voltage protection level @ 1 kV/ $\mu$ s	$U_p$	220V
Voltage protection level @ 100 V/ s		130V
Capacitance		1.5pF

## Electrical (L-PE) Specifications

Voltage protection level @ 1 kV/ $\mu$ s	$U_p$	350V
Voltage protection level @ 3 kA 8/20 $\mu$ s	$U_p$	600V
Voltage protection level @ 100 V/ s		230V
Capacitance		4.5pF

## Mechanical Specifications

Minimum operating temperature		-40°C
Maximum operating temperature		70°C
Minimum operating humidity		5%
Maximum operating humidity		95%
Mounting method		Krone LSA-Plus
Environmental rating		IP20
Enclosure material		Polycarbonate
Enclosure finish		Black EDM
Terminal type		Krone LSA-Plus
Length		21mm
Width		10mm
Height		54mm

## Shipping Specifications

Weight		6.5g
Customs tariff		85363000