

KP10-24-DC

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 KP<sub>x</sub>-T devices are designed for protecting PSTN and digital PABX signals with a maximum line voltage of up to 200V.

The KP<sub>x</sub>-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.

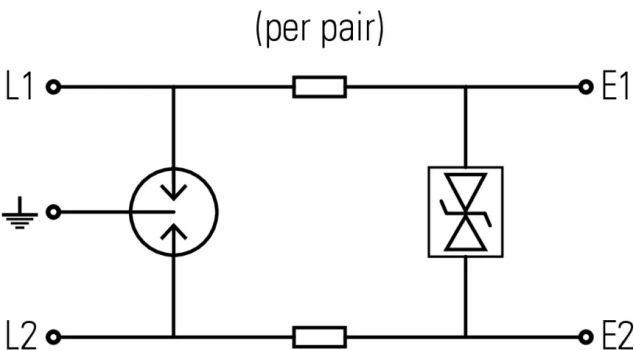
1 Pair and 10 Pair Configurations

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

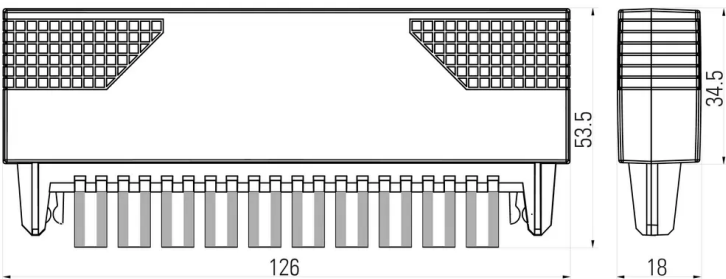


Image for illustrative purposes only

Wiring



Dimensions



Product Datasheet

Electrical Specifications

|                                                      |                                                                                   |                       |
|------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------|
| Connection type                                      |  | Series                |
| Number of lines                                      |  | 10 pair               |
| Modes of protection                                  |  | Transverse and Common |
| Maximum continuous voltage (DC)                      | $U_c$                                                                             | 30V                   |
| Maximum continuous voltage (AC)                      | $U_c$                                                                             | 22V                   |
| 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                                      |  | 2.7 $\Omega$          |
| Insertion loss @ 150 $\Omega$                        |  | <0.5dB @ 20kHz        |
| 3 dB Frequency @ 150 $\Omega$                        |                                                                                   | 70MHz                 |
| Earthing                                             |                                                                                   | Krone LSA-Plus        |

Other Specifications

|              |                                                                                     |            |
|--------------|-------------------------------------------------------------------------------------|------------|
| Product Code |  | KP10-24-DC |
|--------------|-------------------------------------------------------------------------------------|------------|

Electrical (L-L) Specifications

|                                          |                                                                                     |      |
|------------------------------------------|-------------------------------------------------------------------------------------|------|
| Voltage protection level @ 1 kV/ $\mu$ s | $U_p$                                                                               | 36V  |
| Voltage protection level @ 100 V/ s      |                                                                                     | 48V  |
| Capacitance                              |  | 18pF |

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 ABS      |
| Terminal type                 |                                                                                     | Krone LSA-Plus |
| Length                        |  | 126mm          |
| Width                         |  | 18mm           |
| Height                        |  | 54mm           |

Shipping Specifications

|                |                                                                                     |          |
|----------------|-------------------------------------------------------------------------------------|----------|
| Weight         |  | 150g     |
| Customs tariff |  | 85363000 |