KRONE™ LSA-Plus® Telephone Signal Protection

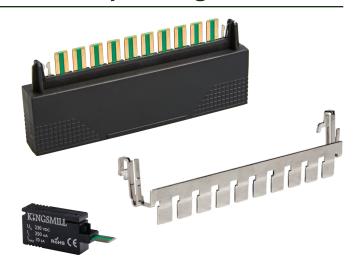
Use the Kingsmill KP series of products for telephone and signal line protection for signals utilising the KRONE™ LSA-PLUS® 10-way connection blocks.

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.

Telephone and Signal protection

The KMKP-10 devices are designed for protecting PSTN and digital PABX signals with a maximum line voltage of up to 200V. They protect all common signalling systems.



Ordering Information

Model	Signal Type		Ordering Codes	
KMKP-x	PSTN	PABX	KMKP-1 (1 pair)	KMKP-10 (10 pairs)

The KMKP-1 must be used in conjunction with the Earth Bar KM-KP-EB.

Electrical specification

Order number		KMKP-1	KMKP-10
Connection type	-	in series	
Modes of protection		transverse and common mode	
Number of lines		1 pair	10 pairs
Maximum continuous voltage (AC/DC)	U _c	140V AC/200V DC	
Maximum discharge current (8/20µs)	I _{max}	5kA per line (10kA common mode)	
Impulse durability		C2 10 x 5kA 8/20μs	
Maximum load current	IL	250mA	
L-L Voltage protection level at 1kV/μs	Up	220V	
L-L Voltage protection level at 100V/s		235V	
L-PE Voltage protection level at 1kV/μs	U _p	350V	
L-PE Voltage protection level at 3kA 8/20μs	Up	600V	
L-PE Voltage protection level at 100V/s	230V		
AC durability		5 x 1s, 1A rms	
Overstressed fault mode		Mode 3 (open circuit)	
Response time	t _a	<5ns	
Line resistance		2.7Ω	
L-L capacitance		18pF	
L-PE capacitance		4.5pF	
Insertion loss @ 150Ω		<0.5dB (<1MHz)	
3dB frequency @ 150Ω		70MHz	



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Mechanical specification

Order number	KMKP-1	KMKP-10		
Degree of protection		IP20		
Range of operating temperatures (min - max)	-40°(-40°C - +85°C		
Humidity range	5% to 95% n	5% to 95% non-condensing		
Mounting	KRONE	KRONE LSA-PLUS®		
Earthing	Additional earth bar for KMKP-1 (KM-KP-EB)	Additional earth bar for KMKP-1 (KM-KP-EB)		
According to standard		EN 61643-21:2012, AS/NZS 1768:2007, UL 1449 3rd edition & UL 497B, ITU-T K.44:2012, AS/CA S008:2010, AS/NZS 4117:1999		
Weight	6.5g	150g		

Standards

Order number	КМКР-1	KMKP-10	
EN 61643-21:2012	SPD connected to telecommunication	SPD connected to telecommunications and signalling networks - Cat C2, D1	
AS/NZS 1768:2007	Signalling/telecommun	Signalling/telecommunications surge protection	
UL 1449 3rd edition & UL 497B	Protectors for data communi	Protectors for data communications and fire-alarm circuits	
ITU-T K.44:2012	Resistibility tests for telecommunication equip	Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents	
AS/CA S008:2010	Requirements for Cust	Requirements for Customer Cabling Products	
AS/NZS 4117:1999	Surge Protective Devices for Te	Surge Protective Devices for Telecommunications Applications	

Dimensions and wiring diagram

