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SERIES K: PROTECTION AGAINST INTERFERENCE

Ethernet port surge voltages and currents

ITU-T K-series Recommendations – Supplement 23



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Supplement 23 to ITU-T K-series Recommendations

Ethernet port surge voltages and currents

Summary

The level and duration of the local area network (LAN) lightning surges depends on the lightning current waveform and the coupling mechanism. In Supplement 23 to ITU-T K-series Recommendations, Ethernet port voltages and currents due to magnetic and direct surge coupling are studied. Port currents due to insulation capacitance, the Smith termination, and insulation voltage limiting, are quantified and discussed and a simple model for these current paths is derived.

History

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Table of Contents

		Page
1	Scope.....	1
2	References.....	1
3	Definitions	1
	3.1 Terms defined elsewhere	1
	3.2 Terms defined in this Supplement	1
4	Abbreviations and acronyms	1
5	Conventions	2
6	Earth loop current reduction	2
7	Overvoltage and overcurrent events	3
	7.1 General	3
	7.2 Magnetic coupling	3
8	Impulse current paths.....	5
	8.1 General	5
	8.2 Smith termination circuit	5
	8.3 Insulation barrier overvoltage protective circuit	6
9	Direct coupling	7
10	Inter-port impulse levels	8
11	IEEE 802.3 – isolation tests.....	8
12	Summary.....	9
	Bibliography.....	10

