



INTERNATIONAL TELECOMMUNICATION UNION

**ITU-T**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**K.5**

**PROTECTION AGAINST INTERFERENCE**

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**JOINT USE OF POLES FOR  
ELECTRICITY DISTRIBUTION AND  
FOR TELECOMMUNICATIONS**

**ITU-T Recommendation K.5**

(Extract from the *Blue Book*)

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## NOTES

1 ITU-T Recommendation K.5 was published in Volume IX of the *Blue Book*. This file is an extract from the *Blue Book*. While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

2 In this Recommendation, the expression “Administration” is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

## Recommendation K.5

### JOINT USE OF POLES FOR ELECTRICITY DISTRIBUTION AND FOR TELECOMMUNICATIONS

(Geneva, 1964)

Administrations that wish to adopt joint use of the same supports for open-wire or aerial cable telecommunication lines and for electricity lines are recommended, when national laws and regulations permit such an arrangement, to take the following general considerations into account:

- 1) There are economic and aesthetic advantages to be derived from the joint use of poles by Administrations and electricity authorities.
- 2) When suitable joint construction methods are used, there is, nevertheless, some increased likelihood of danger by comparison with ordinary construction methods, both to staff working on the telecommunication line and to the telecommunication installation connected thereto. Special training of personnel working on such lines is highly desirable and especially when the electricity line is a high-voltage line.
- 3) The rules given in the *Directives* in connection with danger, disturbance, and staff safety should be complied with (see [1]).
- 4) Special formal agreements are desirable between the Administration and the electricity authority in the case of joint use of poles in order to define responsibilities.
- 5) If joint use is applied on short sections (of the order of 1 km), in most cases a few simple precautions may be enough to ensure that disturbances due to electric and magnetic induction are tolerable.

#### Reference

- [1] CCITT manual *Directives concerning the protection of telecommunication lines against harmful effects from electric power and electrified railway lines*, Vol. II, ITU. Geneva. 1988.