Recommendation K.23

TYPES OF INDUCED NOISE AND DESCRIPTION OF NOISE VOLTAGE PARAMETERS FOR ISDN BASIC USER NETWORKS

1. Purpose of this Recommendation

This Recommendation has been produced by CCITT Study Group V to meet the urgent requirem manufacturers, and users who should evaluate equipment for its immunity to induced noise in order to desig

This Recommendation identifies the types of induced noise that can cause degradation of transm malfunction of the equipment, and noise voltage parameters that should be evaluated.

2. Scope

This Recommendation covers the degradation of equipment performance due to induced noise v inducing source external to the cable, or by another telecommunication system, on metallic pair cables (inclu However, this Recommendation does not cover interference caused by transmission characteristics of cables characteristics).

This Recommendation considers the characteristics of induced noise voltages at metallic-pair ISI premises. Interface locations covered by this Recommendation are the S and T interfaces (see Recommendat wire interface of the NT1.

The communication line constituting the S/T Bus may be confined to a building, or connect two

connecting telecommunications line may be either aerial or below-ground.

3. Types of induced noise affecting the ISDN

3.1 Mode of voltage

Two voltage modes should be considered: longitudinal voltage and transverse voltage. Figure 1 i
longitudinal voltage induced in telecommunication lines and the transverse voltage.