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Method for measuring longitudinal conversion loss (9 kHz - 30 MHz)

Recommendation ITU-T K.86



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Summary

With the liberalization in telecommunications, unbundling becomes commonplace in telecommunication networks. The unbundling of the access network increases the number of operators that may provide services within a common access network cable. In this context, unbalance is not only related to the transmission performance of the services, but also strongly related to electromagnetic compatibility (EMC) performance of the services. The longitudinal conversion loss (LCL) of telecommunication lines or telecommunication ports is a measure of the degree of unwanted transverse signal produced at the terminals of the network due to the presence of a longitudinal signal on the connecting leads.

Considering the frequency range of broadband services such as integrated services digital network (ISDN), asymmetric digital subscriber line (ADSL), ADSL2, ADSL2plus, very high-speed digital subscriber line (VDSL) and VDSL2, Recommendation ITU-T K.86 presents the method for measuring longitudinal conversion loss for the frequency range from 9 kHz to 30 MHz and presents the suggestion of the admissible value for the unbundling condition.

History

Edition	Recommendation	Approval	Study Group
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Keywords

LCL, longitudinal conversion loss, unbalance.

FOREWORD

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

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