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**ITU-T**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**G.692**

**Amendment 1**  
(01/2005)

SERIES G: TRANSMISSION SYSTEMS AND MEDIA,  
DIGITAL SYSTEMS AND NETWORKS

Transmission media characteristics – Characteristics of  
optical components and subsystems

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Optical interfaces for multichannel systems with  
optical amplifiers

**Amendment 1**

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# **ITU-T Recommendation G.692**

## **Optical interfaces for multichannel systems with optical amplifiers**

### **Amendment 1**

#### **Summary**

This amendment contains modifications to the text of ITU-T Rec. G.692 (1998) to remove ambiguity in the text of the definition of receiver sensitivity contained in clause 6.8.1.

#### **Source**

Amendment 1 to ITU-T Recommendation G.692 (1998) was approved on 13 January 2005 by ITU-T Study Group 15 (2005-2008) under the ITU-T Recommendation A.8 procedure.

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## ITU-T Recommendation G.692

### Optical interfaces for multichannel systems with optical amplifiers

#### Amendment 1

*Modify clause 6.8.1 as follows:*

##### 6.8.1 Receiver sensitivity

Receiver sensitivity is defined as the minimum value of average received power at point  $R_n$  to achieve a  $1 \times 10^{-12}$  BER. ~~It takes into account power penalties caused by use of~~ This must be met with a transmitter under standard operating conditions with worst-case values of transmitter eye mask, extinction ratio, pulse rise and fall times, optical return loss at points  $S_n$ , receiver connector degradations, optical crosstalk, optical amplifier noise, and measurement tolerances. The receiver sensitivity does not ~~include power penalties associated with~~ have to be met in the presence of dispersion, jitter, or reflections from the optical path; these effects are specified separately in the allocation of maximum optical path penalty.

NOTE – The receiver sensitivity does not have to be met in the presence of transmitter jitter in excess of the appropriate jitter generation limit (e.g., see ITU-T Rec. G.783 for SDH Optical tributary signals).

Ageing effects are not specified separately since they are typically a matter between a beginning-of-life, nominal temperature receiver and its end-of-life, worst-case counterpart are desired to be in the 2 to 4 dB range. The receiver sensitivities in this Recommendation are worst-case, end-of-life values.





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