Broad Band Noise Test Specification for Clause 202

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Broad Band Noise Test

- **201.6.3.2 Broadband stationary noise rejection**

This specification is provided to verify for the receiver's tolerance to broadband stationary noise from a variety of sources. The test is performed with a noise source consisting of a signal generator with Gaussian distribution, bandwidths, and magnitudes shown in Table 202–??. The minimum noise frequency is10MHz. The receive DUT is connected to the noise source through a directional coupler, as shown in Figure 202–??, with a link segment as defined in 202.? for -T1 and shown in Figure 202–??, with a link segment as defined in 202.?? for -V1. The BER is expected to be less than 10^{-12}, and to satisfy this specification, the frame loss ratio is less than 10^{-9} for 125-octet packets measured at the MAC/PLS service interface.

Table 201–17—Broadband stationary noise source, high speed

		Added noise at MDI (dBm/Hz)	
PHY type	Noise bandwidth (MHz)	-T1	-V1
10G+100MBASE	3500	–148	-151
5G+100MBASE	3500	–144	-147
2.5G+100MBASE	1750	–140	-143

Editorial Note:
1-Set the figure and table numbers as fits into 202 clauses.
2-Editorial note to align this caluse with other changes that were made in this ballot cycle.

Broad Band Noise Test

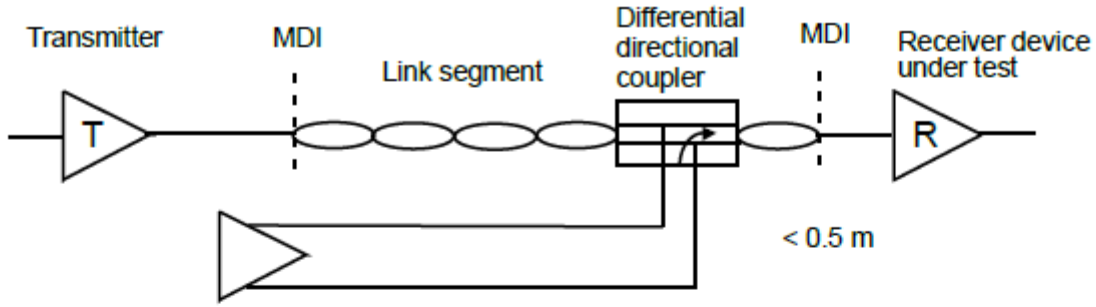

Figure 201–36—Broadband stationary noise rejection test setup, -T1

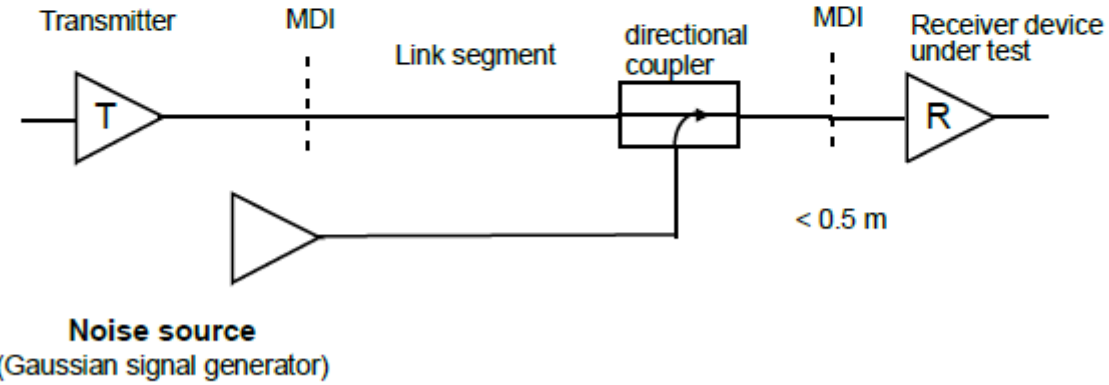

Figure 201–37—Broadband stationary noise rejection test setup, -V1