

Table 60–8e—1000BASE-PX40-D and 1000BASE-PX40-U receive characteristics

Description	1000BASE-PX40-D	1000BASE-PX40-U	Unit
Signaling speed (range)	1.25 ± 100 ppm	1.25 ± 100 ppm	GBd
Wavelength (range)	1260 to 1360	1480 to 1500	nm
Bit error ratio (max)	10^{-12}		
Average receive power (max)	-812	-128	dBm
Damage threshold (max) ^a	-36	-63	dBm
Receiver sensitivity (max)	-32	-30	dBm
Receiver sensitivity OMA (max)	-31.22 (0.76)	-29.22 (1.2)	dBm (μ W)
Signal detect threshold (min)	-45	-44	dBm
Receiver reflectance (max)	-12	-12	dB
Stressed receive sensitivity (max)	-31	-29	dBm
Stressed receive sensitivity OMA (max)	-30.22 (0.95)	-28.22 (1.51)	dBm (μ W)
Vertical eye-closure penalty (min)	2.2	1.5	dB
T _{receiver_settling} (max) ^b	400	N/A	ns
Stressed eye jitter (min)	0.28	0.25	UI pk-to-pk
Jitter corner frequency	637	637	kHz
Sinusoidal jitter limits for stressed receiver conformance test (min, max)	(0.05, 0.15)	(0.05, 0.15)	UI

^aDirect ONU–OLT connection may result in damage of the receiver.

^bT_{receiver_settling} represents an upper bound. Optics with better performance may be used in compliant implementations, since the OLT notifies the ONUs of its requirements in terms of the T_{receiver_settling} time via the SYNCTIME parameter.

Change the title and text of 60.5 as shown below:

60.5 Illustrative 1000BASE-PX10 and 1000BASE-PX20 channels and penalties (informative)

Illustrative power budget for 1000BASE-PX10 and, 1000BASE-PX20, 1000BASE-PX30, and 1000BASE-PX40 channels are shown in Table 60–9.

NOTE—The budgets include an allowance for –12 dB reflection at the receiver.