

- 1) It is clear that the editors did not follow the agreement in Portland on Tables 52-10, 52-26, 53-9, and 53-13. However, the proposed solution could work but there are still errors and no consistency in how Clause 52 and Clause 53 handled the comments (which there must be to avoid confusion).

Agreement in Portland:

Reduce unallocated margin to 0.23 dB and add difference to the channel insertion loss for all fiber types

Draft 3.2 implementation

In Table 52-10, the entire unallocated margin has been added to the allocation for penalties and then the difference between the total unallocated margin and the .23 safety margin is listed as additional insertion loss. This is probable OK but the addition of the channel insertion loss and the additional loss should match the channel insertion loss in Table 52-26 (which in two cases it does not).

In Table 53-9, it is treated the same way but in Table 53-13, the value entered here is less the safety margin (0.23 dB). Again, these numbers should match and be consistent between clauses.

In Table 52-10:

BW	160	200	400	500	2000
CIL	1.60	1.63	1.75	1.81	2.59
AIL	0.84	0.81	0.63	0.57	0.00
Total	2.44	2.44	2.38	2.38	2.59

These numbers MUST match those in Table 52-26 (which they don't):

BW	160	200	400	500	2000
CIL	2.45	2.44	2.38	2.38	2.55

So the entries in Table 52-26 must be changed for 160 and 2000 BW.

In Clause 53-9

BW	500	400	500	SMF
CIL	2.46	2.37	2.46	7.14
AIL	0.91	0.50	0.41	0.04
Total	3.37	2.87	2.87	7.18

These numbers MUST match those in Table 53-13 (which they don't):

BW	500	400	500	SMF
CIL	3.14	2.64	2.64	7.14

So the values here are off by 0.23 dB, the safety margin.

2. In 52.14.2.1, there seems to be a problem in that there is a 2 dB allocation for connectors but the example is still based on a 1.5 dB allocation. Also, I see no mention of 10BASE-S PMDs here.
3. Change 52.14.1 Optical fiber and cable – paragraph 1 to read

The fiber optic cable requirements shall meet the requirements of Table 52-27. These requirements are satisfied by IEC 60793-2 for fiber types A1a (50/125 μm multimode), A1b (62.5/125 μm multimode), B1.1 (dispersion un-shifted single mode), B1.3 (low water single

mode), and B4 (non-zero dispersion shifted single mode), with the exceptions noted in Table 52-27.

Change Table 52.17 to include the following (middle and right-hand) column information in Table 52.17:

Description	Type B4 SMF	Units
Nominal fiber specification wavelength	1550	
Fiber cable attenuation (max)	See footnote 1	
Modal Bandwidth (min)	N/A	
Zero dispersion wavelength (λ_0)	N/A	
Dispersion slope (max) (S_0)	N/A	
Dispersion coefficient	$1 \leq D_{min} \leq D \leq D_{max} \leq 10$ (See footnote 2) $D_{min} - D_{max} \leq 5$ (See footnote 3) 1530 - 1565	ps/nm ² km

Footnotes:

- 1) Attenuation for 1550 links is based on Fibre Channel and is specified in 52.14.3.
- 2) The sign of the dispersion shall not change across a specified band for an individual fiber. However, the sign may change from one fiber to another in a system. Positive or negative dispersion is equally effective in suppressing four-wave mixing. The selection of a fiber with a particular dispersion sign should be made with the knowledge of application related aspects discussed in ITU-T recommendation G.663
- 3) The values of D_{min} and D_{max} and their signs shall be agreed between manufacturer and purchaser within these limits.