



ANSI/TIA/EIA-568-B.2-2-2001
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TIA/EIA-568-B.2-2

TIA/EIA STANDARD

Commercial Building Telecommunications Cabling Standard

Part 2: Balanced Twisted Pair Cabling Components

Addendum 2

TIA/EIA-568-B.2-2

(Addendum No. 2 to TIA/EIA-568-B.2)

DECEMBER 2001

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Addendum No. 2 to TIA/EIA-568-B.2

Purpose:

The purpose of this addendum is to revise sub-clauses 4.3.4.8, 4.4, 4.4.1, 4.4.4.9, and 5.4.3 of TIA/EIA-568-B.2. These revisions are identified in the following text with additions shown in bold italics and deletions shown as strikeout.

Revisions:

4.3.4.8

Replace equation (5) with:

$$NEXT_{cat3_cable} \geq NEXT(16) - 15 \log(f / 16) \text{ dB}$$

4.4

Add introductory text as follows:

Four-pair 100-ohm twisted-pair cables that comply with the requirements of clause 4.3 and multipair backbone cables that comply with the requirements of clauses 4.4.1 through 4.4.6 are recognized for use in backbone cabling system.

4.4.1 ***Multipair backbone cable*** ~~General~~

~~Covered herein are the r~~ Requirements for multipair backbone cables in pair sizes greater than 4 pairs ***are specified in clause 4.4.1 through 4.4.6*** for use in the backbone cabling system.

4.4.4.9

Revise category 3 values in table 13 as follows:

Table 1 - Backbone cable PSNEXT loss @ 20 °C ± 3 °C (68 °F ± 5.5°F)

For a length of 100 m (328 ft)

Frequency (MHz)	Category 3 (dB)	Category 5e (dB)
0.772	43.0	64.0
1.0	41.3	62.3
4.0	32.3	53.3
8.0	27.8	48.8
10.0	26.3	47.3
16.0	23.2	44.2
20.0	-	42.8
25.0	-	41.3
31.25	-	39.9
62.5	-	35.4
100.0	-	32.3

1 5.4.3

2

3 *NEXT*(16) shall be ~~48~~**34** dB for category 3 connecting hardware.

4

5 Revise category 3 values in table 20 as follows:

6

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Table 2 - Connecting hardware NEXT loss, worst pair-to-pair

Frequency (MHz)	Category 3 (dB)	Category 5e (dB)
1.0	58.10	65.0
4.0	46.0	65.0
8.0	40.0 39.9	64.9
10.0	38.10	63.0
16.0	34.0 33.9	58.9
20.0	-	57.0
25.0	-	55.0
31.25	-	53.1
62.5	-	47.1
100.0	-	43.0

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