



**ANSI/TIA/EIA-568C
Commercial Building Telecommunications Cabling Standard**

The following tables list attenuation and near-end crosstalk (NEXT) specifications from ANSI/TIA/EIA-568C for Category 3, Category 5 and 6 unshielded twisted pair (UTP) cables.

TABLE 1: HORIZONTAL UTP CABLE ATTENUATION DB/100 M (DB/1000 FT)

FREQUENCY (MHz)	CATEGORY 3	CATEGORY 5e	CATEGORY 6
0.772	2.2 (6.7)	1.8 (5.5)	1.8 (5.5)
1.0	2.6 (7.9)	2.0 (6.1)	2.0 (6.1)
4.0	5.6 (17.1)	4.1 (12.5)	3.8 (11.6)
8.0	8.5 (25.9)	5.8 (17.7)	5.3 (16.2)
10.0	9.7 (29.6)	6.5 (19.8)	6.0 (18.3)
16.0	13.1 (39.9)	8.2 (25.0)	7.6 (23.2)
20.0	–	9.3 (28.4)	8.5 (25.9)
25.0	–	10.4 (31.7)	9.5 (29.0)
31.25	–	11.7 (35.7)	10.7 (32.6)
62.5	–	17.0 (51.8)	15.4 (47.0)
100.0	–	22.0 (67.1)	19.8 (60.4)
200.0	–	–	29.0 (88.4)
250.0	–	–	32.8 (100.0)

TABLE 2: HORIZONTAL UTP CABLE NEXT LOSS, DB (WORST PAIR COMBINATION) 100M (328 FT)

FREQUENCY (MHz)	CATEGORY 3	CATEGORY 5e	CATEGORY 6
0.772	43	67	76
1.0	41	65	74
4.0	32	56	65
8.0	27	52	61
10.0	26	50	59
16.0	23	47	56
20.0	–	45	55
25.0	–	44	53
31.25	–	42	52
62.5	–	38	47
100.0	–	35	44
200.0	–	–	40
250.0	–	–	38