

Industry Standards, Typical Uses and Electrical Requirements

For Twisted Pair Horizontal Wiring Cable

CATEGORY	INDUSTRY STANDARDS	TYPICAL USES	FREQUENCY	INSERT. LOSS dB/100 M (MAX)	CHARACTERISTICS IMPEDANCE OHMS		NEXT dB (MIN)	PSNEXT dB (MIN)	RETURN LOSS dB (MIN)	PSACRF (PSELFEXT) dB (MIN)	PSAACRF dB (MIN)	PSANEXT dB (MIN)
					MIN	MAX						
Category 3	ANSI/TIA/EIA 568 C.2 ANSI/ICEA S-90-661 NEMA WC63.1	10 BASE-T 4 Mbps TOKEN RING 52 Mbps ATM 100 BASE VG AnyLAN	772 kHz	2.2	87	117	43	—	—	—	—	—
			1 MHz	2.6	85	115	41	—	—	—	—	—
			4 MHz	5.6	85	115	32	—	—	—	—	—
			8 MHz	8.5	85	115	28	—	—	—	—	—
			10 MHz	9.7	85	115	26	—	—	—	—	—
			16 MHz	13.1	85	115	23	—	—	—	—	—
Category 5e	ANSI/TIA/EIA 568 C.2 ANSI/ICEA S-90-661 NEMA WC63.1 ISO 11801	16 Mbps TOKEN RING 100 BASE-T 52/155 Mbps ATM 100 BASE VG AnyLAN 100 Mbps TP PMD 1000 BASE-T (Gigabit Ethernet)	772 kHz	1.8	87	117	67	64	—	63.0	—	—
			1 MHz	2.0	85	115	65	62	20.0	60.8	—	—
			4 MHz	4.1	85	115	56	53	23.0	48.7	—	—
			8 MHz	5.8	85	115	51	48	24.5	42.7	—	—
			10 MHz	6.5	85	115	50	47	25.0	40.8	—	—
			16 MHz	8.2	85	115	47	44	25.0	36.7	—	—
			20 MHz	9.3	85	115	45	42	25.0	34.7	—	—
			25 MHz	10.4	85	115	44	41	24.3	32.8	—	—
			31.25 MHz	11.7	85	115	43	40	23.6	30.9	—	—
			62.5 MHz	17.0	85	115	38	35	21.5	24.8	—	—
			100 MHz	22.0	85	115	35	32	20.1	20.8	—	—
Category 6	ANSI/TIA/EIA 568 C.2 ANSI/ICEA S-90-661 NEMA WC66 ISO 11801	16 Mbps TOKEN RING 155/622 Mbps ATM 1.2 Gbps ATM 100 Mbps TP PMD 100 BASE-T 1000 BASE-T (Gigabit Ethernet)	772 kHz	1.8	87	117	76.0	74.0	—	67.0	—	—
			1 MHz	2.0	85	115	74.3	72.3	20.0	64.8	—	—
			4 MHz	3.8	85	115	65.3	63.3	23.0	52.8	—	—
			8 MHz	6.0	85	115	59.3	57.3	25.0	44.8	—	—
			10 MHz	7.6	85	115	56.2	54.2	25.0	40.7	—	—
			16 MHz	8.5	85	115	54.8	52.8	25.0	38.7	—	—
			20 MHz	10.7	85	115	51.9	49.9	23.6	36.8	—	—
			31.25 MHz	15.4	85	115	47.4	45.4	21.5	34.9	—	—
			62.5 MHz	19.8	85	115	44.3	42.3	20.1	24.8	—	—
			100 MHz	29.0	85	115	39.8	37.8	18.0	18.8	—	—
			250 MHz	32.8	85	115	38.3	36.3	17.3	16.8	—	—
Category 6a	ANSI/TIA 568 C.2 RoHS	IEEE 802.3 10G BASE-T 100 BASE-T 100 BASE-TX 10 BASE-T 1000 BASE-TX 155 Mb/s ATM ANSI X3.263 100Mb/s	1 MHz	2.1	85	115	74.3	72.3	20.0	64.8	78.2	92.5
			4 MHz	3.8	85	115	65.3	63.3	23.0	52.8	66.2	83.5
			8 MHz	5.3	85	115	60.8	58.8	24.5	46.7	60.1	79.0
			10 MHz	5.9	85	115	59.3	57.3	25.0	44.8	58.2	77.5
			16 MHz	7.5	85	115	56.2	54.2	25.0	40.7	54.1	74.4
			20 MHz	8.4	85	115	54.8	52.8	25.0	38.8	52.2	73.0
			25 MHz	9.4	85	115	53.3	51.3	24.3	36.8	50.2	71.5
			31.25 MHz	10.5	85	115	51.9	49.9	23.6	34.9	48.3	70.1
			62.5 MHz	15.0	85	115	47.4	45.4	21.5	28.9	42.3	65.6
			100 MHz	19.1	85	115	44.3	42.3	20.1	24.8	38.2	62.5
			200 MHz	27.6	85	115	39.8	37.8	18.0	18.8	32.2	58.0
			250 MHz	31.1	85	115	38.3	36.3	17.3	16.8	30.2	56.5
			300 MHz	34.3	85	115	37.1	35.1	16.8	15.3	28.7	55.3
			400 MHz	40.1	85	115	35.3	33.3	15.9	12.8	26.2	53.5
500 MHz	45.3	85	115	33.8	31.8	15.2	10.8	24.2	52.0			

Data subject to change without notice. Contact your Customer Service Representative for latest information.

— No requirement

Note: Higher category may be substituted for lower category.