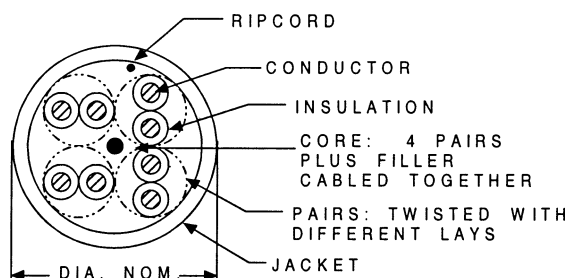


Category 6 Cable

219560-X, 219567-X



Description

AMP Category 6 cables exceed the proposed TIA requirements for Category 6 performance. They comply with all of the performance requirements for current and proposed applications such as Gigabit Ethernet, 100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog (broadband, baseband) and digital video and analog and digital (VoIP) voice. The cables are available in plenum and non-plenum, white, gray, blue and yellow, and packaged on wooden reels and as reel-in-box.

Specification (Text in brackets [] requires a choice.)

Horizontal cabling shall be 23 AWG, 4-pair UTP, UL/NEC [CMP or CMR] rated, with a [white, gray, blue or yellow] [plenum-rated] PVC jacket. [Individual conductors shall be 100% FEP insulated (if plenum)]. Cable jacketing shall be lead-free. Cable shall meet the performance requirements listed in the following table [include Performance Characteristics table from back page]. Cable shall be supplied [on wooden reels or on reel-in-box]. Cable shall be UL listed under file number E138034. Horizontal cable shall be AMP part number [219560-X, 219567-X].

Impedance: 100 ohms + 15%, 1 MHz to 600 MHz

Propagation delay: 536 ns/100 m max. @ 250 MHz

Delay Skew: 45 ns max

Bend radius: (4 X cable diameter) ≈ 1"

Conductor resistance: 66.58 ohms max/km

Mutual capacitance: 5.6 nF max/100 m

Voltage: 300 volts AC or DC

Materials:

Conductors - 23 AWG solid bare copper

Insulation -

219567 - FEP, .040" dia. nom.

219560 - Polyethylene, .042" dia. nom.

Jacket - FR PVC

Operating temperature: -20°C - 60°C

Storage temperature: -20°C - 80°C

Approvals: UL listed file no. E138034

Performance Characteristics (exceed TIA proposed Category 6 Draft 7)

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)		PSNEXT (dB)		ELFEXT (dB)		PSELFEXT (dB)		RL (dB)		ACR (dB)		PS ACR (dB)	
	Maximum	Minimum	Typical	Minimum	Typical	Minimum	Typical	Minimum	Typical	Minimum	Typical	Minimum	Typical	Minimum	Typical
0.772	1.8	79	82	77	79	70	73	67	69	-	-	77.2	80.2	75.2	77.2
1	2.0	77	80	75	77	68	71	65	67	20	28	75.3	78.3	73.3	75.3
4	3.8	68	71	66	68	56	59	53	55	23	31	64.5	67.5	62.5	64.5
8	5.4	64	67	62	64	50	53	47	49	24.5	32.5	58.4	61.4	56.4	58.4
10	6.0	62	65	60	62	48	51	45	47	25	33	56.3	59.3	54.3	56.3
16	7.6	59	62	57	59	44	47	41	43	25	33	51.7	54.7	49.7	51.7
20	8.5	58	61	56	58	42	45	39	41	25	33	49.3	52.3	47.3	49.3
25	9.6	56	59	54	56	40	43	37	39	24.3	32.3	46.8	49.8	44.8	46.8
31.25	10.7	55	58	53	55	38	41	35	37	23.6	31.6	44.2	47.2	42.2	44.2
62.5	15.5	50	53	48	50	32	35	29	31	21.5	29.5	34.9	37.9	32.9	34.9
100	19.9	47	50	45	47	28	31	25	27	20.1	28.1	27.4	30.4	25.4	27.4
155	25.3	44	47	42	44	24	27	21	23	18.8	26.8	19.1	22.1	17.1	19.1
200	29.2	43	46	41	43	22	25	19	21	18	26	13.6	16.6	11.6	13.6
250	33.0	41	44	39	41	20	23	17	19	17.3	25.3	8.3	11.3	6.3	8.3
300	36.6	40	43	38	40	18	21	15	17	16.8	24.8	3.5	6.5	1.5	3.5
350	40.0	39	42	37	39	17	20	14	16	16.3	24.3	-	2.1	-	-
400	43.2	38	41	36	38	16	19	13	15	15.9	23.9	-	-	-	-
450	46.3	38	41	36	38	15	18	12	14	15.5	23.5	-	-	-	-
500	49.2	37	40	35	37	14	17	11	13	15.2	23.2	-	-	-	-
550	52.0	36	39	34	36	13	16	10	12	14.9	22.9	-	-	-	-
600	54.8	36	39	34	36	12	15	9	11	14.7	22.7	-	-	-	-

Description	UL/NEC Ratings	Nominal Diameter Dielectric	Outside	Vp (nom%)	Weight	Package	White	Part Numbers Gray	Blue	Yellow
4-Pair Non-Plenum	CMR	0.042in	0.230in	70	26 lbs/mft	RB	219560-2	219560-4	219560-6	219560-8
						WR	219560-1	219560-3	219560-5	219560-7
4-Pair NON-Plenum	CMP	0.040in	0.206in	74	24 lbs/mft	RB	219567-2	219567-4	219567-6	219567-8
						WR	219567-1	219567-3	219567-5	219567-7

Package: WR = Wooden Reel, RB = Reel-in-Box (1000 ft.)

Specifications subject to change without notice

<http://www.amp.com/networking>

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