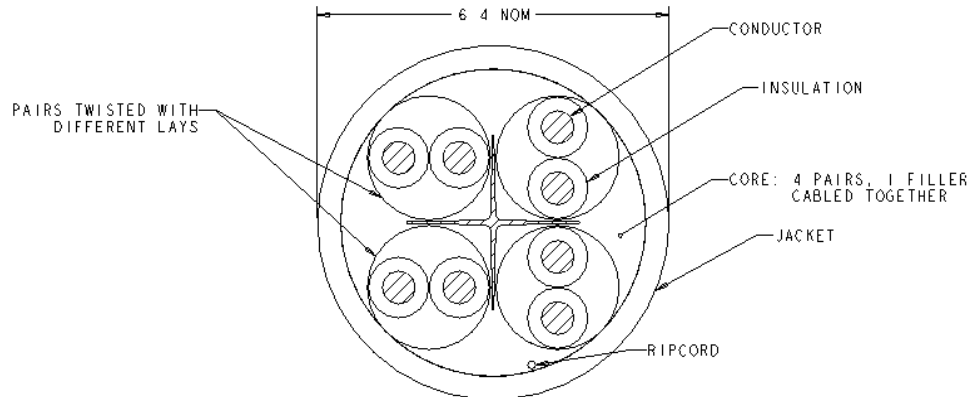


Category 6 Cable

X-1427254-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 voice. The cables are available in CM, white, gray, blue and yellow, and packaged as pull box.

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

Horizontal cabling shall be 23 AWG, 4-pair UTP, UL/NEC CM rated, with a [white, gray or blue] [CM] PVC jacket. Cable shall meet the performance requirements listed in the following table [include Performance Characteristics table from back page]. Cable shall be AMP part number [X-1427254-X].

Category 6 Cable

X-1427254-X

CATEGORY 6 PERFORMANCE CHARACTERISTICS									
FREQUENCY (MHz)	ATTENUATION (db/100m)	NEXT (db, WORST PR)	PSNEXT (db)	ELFEXT (db, WORST PR)	PSELFEXT (db)	DELAY (ns/100m)	RL (db)	IMPEDANCE (ohms)	ACR (db)
	MAXIMUM	MINIMUM	MINIMUM	MINIMUM	MINIMUM	MAXIMUM	MINIMUM		MINIMUM
0.772	1.8	79	77	70	67	-	-	100±15	77.0
1.00	2.0	77	75	68	65	570	20.0	100±15	75.1
4.00	3.8	68	66	56	53	552	23.0	100±15	64.3
8.00	5.3	64	62	50	47	547	24.5	100±15	58.2
10.00	6.0	62	60	48	45	545	25.0	100±15	56.1
16.00	7.6	59	57	44	41	543	25.0	100±15	51.5
20.00	8.5	58	56	42	39	542	25.0	100±15	49.1
25.00	9.5	56	54	40	37	541	24.3	100±15	46.6
31.25	10.7	55	53	38	35	540	23.6	100±15	44.0
62.50	15.4	50	48	32	29	539	21.5	100±15	34.8
100.00	19.8	47	45	28	25	538	20.1	100±15	27.3
155.00	25.2	44	42	24	21	537	18.8	100±15	19.1
200.00	29.0	43	41	22	19	537	18.0	100±15	13.6
250.00	32.8	41	39	20	17	536	17.3	100±15	8.3

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

Propagation delay: 536 ns/100m 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/100m

Voltage: 300 volts AC or DC

Materials:

Conductors – 23 AWG solid bare copper

Insulation –

1427200 – 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

Specifications subject to change without notice.

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