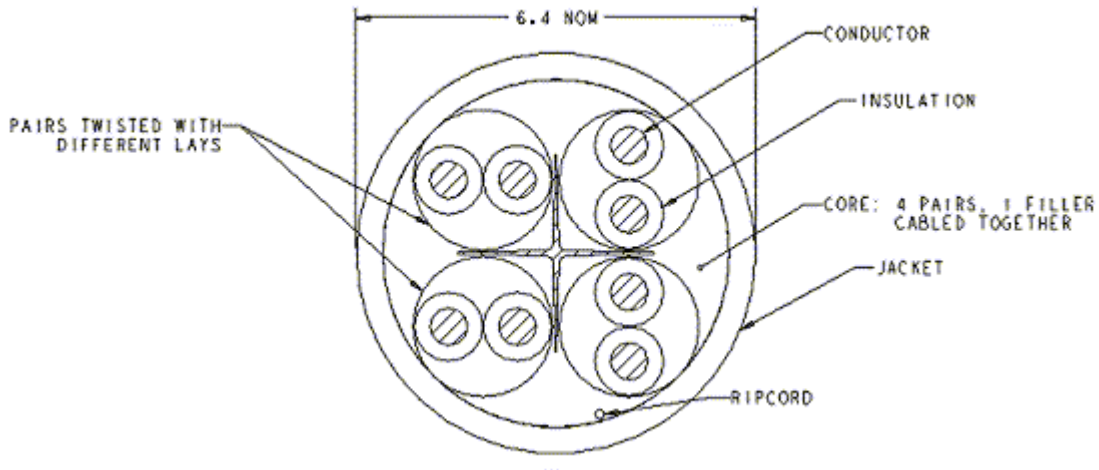


Category 6 Cable

X-1499415-X



Description

AMP NETCONNECT Category 6 cables exceed the TIA/EIA-568-B.2-1 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 CM, white, gray, and blue, and packaged as reel box.

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

Horizontal cabling shall be 24 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-1499415-X].

Description	UL/NEC Ratings	Nominal Diameter		Vp (nom%)	Weight	Package	Part Number		
		Dielectric	Outside				White	Gray	Blue
4-Pair Non-Plenum	CM	0.042 in	0.230 in	70	26 lbs/mft	Reel Box	0-1499415-2	0-1499415-4	0-1499415-6

Package: Reel Box (1000 ft.)

Category 6 Cable

X-1499415-X

Performance Characteristics (exceed TIA/EIA-568-B.2-1 Category 6)

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)		PSNEXT (dB)		ELFEXT (dB)		PSELFEXT (dB)		RL (dB)		ACR (dB)		PSACR (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	75.0	78.3	73.0	75.3
4	3.8	68	71	66	68	56	59	53	55	23	31	64.2	67.5	62.2	64.5
8	5.3	64	67	62	64	50	53	47	49	24.5	32.5	58.7	61.4	56.7	58.4
10	6.0	62	65	60	62	48	51	45	47	25	33	56.0	59.3	54.0	56.3
16	7.6	59	62	57	59	44	47	41	43	25	33	51.4	54.7	49.4	51.7
20	8.5	58	61	56	58	42	45	39	41	25	33	49.5	52.3	47.5	49.3
25	9.5	56	59	54	56	40	43	37	39	24.3	32.3	46.5	49.8	44.5	46.8
31.25	10.7	55	58	53	55	38	41	35	37	23.6	31.6	44.3	47.2	42.3	44.2
62.5	15.4	50	53	48	50	32	35	29	31	21.5	29.5	34.6	37.9	32.6	34.9
100	19.8	47	50	45	47	28	31	25	27	20.1	28.1	27.2	30.4	25.2	27.4
155	25.3	44	47	42	44	24	27	21	23	18.8	26.8	18.7	22.1	16.7	19.1
200	29.0	43	46	41	43	22	25	19	21	18	26	14.0	16.6	12.0	13.6
250	32.8	41	44	39	41	20	23	17	19	17.3	25.3	8.2	11.3	6.2	8.3
300	36.6	40	43	38	40	18	21	15	17	16.8	24.8	3.4	6.5	1.4	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	-	-	-	-

Impedance: 100 ohms \pm 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) \approx 1"

Conductor resistance: 66.58 ohms max/km

Mutual capacitance: 5.6 NF max/100m

Materials:

Conductors – 24 AWG solid bare copper

Insulation –

1499415 – 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.

Revised Jan/2003

tyco
Electronics



© Copyright 2000 Tyco Electronics Corporation. All rights reserved.
AMP and NETCONNECT are trademarks.