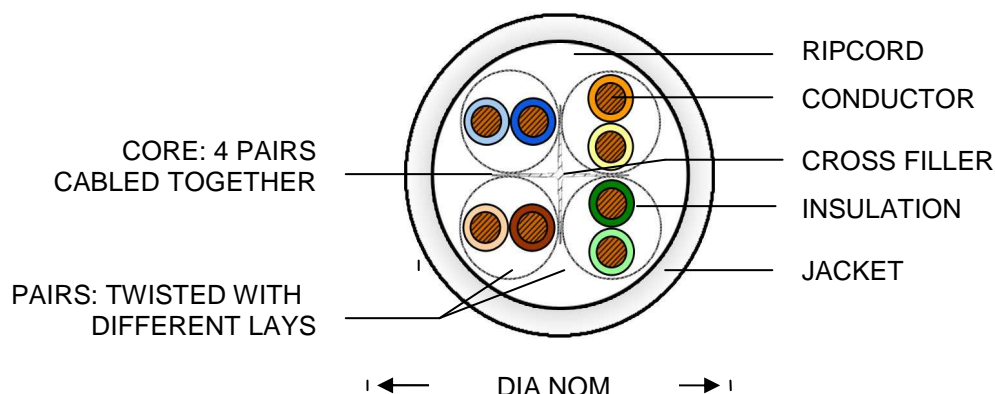


Category 6 U/UTP Cable

1427071-2, 1427071-4, 1427071-6



Description

AMP NETCONNECT Category 6 (CAT6) cables exceed TIA/EIA-568-B.2-1, TIA/EIA 568-C and ISO/IEC 11801:2002 Class E, IEC61156-5, IEC60332-1-2, EN50288-6-1 and EN50173-1 performance requirements. They comply with all of the performance requirements for current and proposed applications such as Gigabit Ethernet 1000Base-T IEEE 802.3ab, 10Gbps IEEE 802.3an* by limit distance and required test procedure by TSB-155, 100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps, 1.2Gbps, TP-PMD, ISDN, analog (Broadband, Baseband) and digital video and analog and digital voice (VoIP) and VoIP Camera application. The cable is available in white, gray, and blue, and packaged as reel-in-box.

Specification (text in brackets [] requires a choice)

Horizontal cabling shall be 24 AWG, 4-pair UTP, UL/NEC CM rated (FR-PVC). Cable jacketing shall be a [white, gray, or blue] [CM] jacket and shall be lead-free. Cable shall meet the performance requirements listed in the following table [include Performance Characteristics table from back page] in addition to all other standard Category 6 performance requirements and shall be independently verified by ETL. Cable shall be supplied [on reel-in-box]. Cable shall be UL listed under file number E138034. Flammability shall comply to NEC article 800. Horizontal (Solid) cable shall be AMP NETCONNECT part number X-1427071-X.

Part Numbers

Description	UL/NEC Ratings	Nominal Diameter		Vp (nom%)	Weight (Box)	Package	Part Numbers		
		Dielectric	Outside				White	Gray	Blue
Cat 6 U/UTP Cable, 4-Pair Non-Plenum, CM	CM	0.037 in	0.220 in	70	26 lbs	Reel Box	1427071-2	1427071-4	1427071-6

Package: Reel Box (1000 ft.)

Category 6 U/UTP Cable



1427071-2, 1427071-4, 1427071-6

Performance Characteristics (exceed TIA/EIA-568-C.2 Category 6 and ISO/IEC 11801 Class E)

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)		PSNEXT (dB)		ELFEXT (dB)		PSELFEXT (dB)		RL (dB)		ACR (dB)		PSACR (db)	
		Min	ETL	Min	ETL	Min	ETL	Min	ETL	Min	ETL	Min	ETL	Min	ETL
	Max														
0.772	1.63	79	96.81	77	94.11	70	92.02	67	90.99	-	36.55	77.2	95.18	75.2	92.48
1	1.83	74.3	93.56	72.3	91.99	67.8	89.73	64.8	88.68	20	32.04	72.3	91.73	73	90.16
4	3.62	65.3	87.21	63.3	84.85	55.8	80.15	52.8	78.23	23	35.31	61.5	83.59	62.2	81.23
8	5.09	60.8	84.84	58.8	81.90	49.7	74.93	46.7	72.74	24.5	32.93	55.5	79.79	56.7	76.89
10	5.69	59.3	81.35	57.3	78.54	47.8	72.84	44.8	70.72	25	33.30	53.3	75.71	54	72.93
16	7.15	56.2	75.46	54.2	74.42	43.7	69.35	40.7	66.19	25	34.21	48.7	68.31	49.4	67.27
20	8.00	54.8	77.46	52.8	74.80	41.8	66.21	38.8	63.61	25	33.31	46.3	69.53	47.5	66.95
25	8.96	53.3	74.39	51.4	72.18	39.8	63.95	36.8	61.63	24.3	33.40	43.9	65.49	44.5	63.38
31.25	10.03	51.9	73.62	49.9	70.87	37.9	61.34	34.9	59.43	23.6	34.05	41.2	63.58	42.3	60.97
62.5	14.30	47.4	67.53	45.4	65.99	31.9	55.28	28.9	53.62	21.5	33.98	32.0	53.23	32.6	51.87
100	18.23	44.3	63.74	42.3	62.35	27.8	53.39	24.8	51.68	20.1	35.98	24.5	45.51	25.2	44.12
200	26.12	39.8	63.23	37.8	60.66	21.8	42.22	18.8	41.38	18	32.75	10.8	37.57	12	34.59
250	29.32	38.3	58.28	36.4	55.37	19.8	38.45	16.8	38.02	17.3	37.17	5.6	29.14	6.2	26.48
300	36.4	37.1	-	35.1	-	18.3	-	15.3	-	16.8	-	3.4	-	1.4	-
350	39.8	36.1	-	34.1	-	16.9	-	13.9	-	16.3	-	-	-	-	-
400	43.0	35.3	-	33.3	-	15.8	-	12.8	-	15.9	-	-	-	-	-
450	46.0	34.5	-	32.5	-	14.7	-	11.7	-	15.5	-	-	-	-	-
500	48.9	33.8	-	31.8	-	13.8	--	10.8	-	15.2	-	-	-	-	-
550	51.8	33.2	-	31.2	-	13.0	-	10.0	-	14.9	-	-	-	-	-
600	54.5	32.6	-	30.6	-	12.2	-	9.2	-	14.7	-	-	-	-	-

Technical Details

Materials

Conductors – 24 AWG solid bare copper

Insulation – Polyethylene, 0.037 in nom dia

Jacket – FR PVC,CM

Filler – Polyethylene

Electrical Characteristics

Impedance – 100Ω ± 15%, 1 MHz to 250 MHz

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

Skew – 45 ns/100 m max. @250 MHz

Mutual capacitance – 5.6 nF max/100 m

Conductor resistance – 66.58Ω max/1000 m

Voltage – 300 Volts AC or DC

Mechanical Characteristics

Bend radius – The minimum bending radius is 8x outside diameter during installation and 4x the outside diameter after installation ≈ 1"

Operating temperature – -20°C to 60°C

Storage temperature – -20°C to 80°C

Voltage – 300 Volts AC or DC

Approvals

UL File Number E138034

ETL Certificate 3162341CRT-001

RoHS Compliant

Specifications subject to change without notice. Revised 05/11

<http://www.ampnetconnect.com/thailand>

