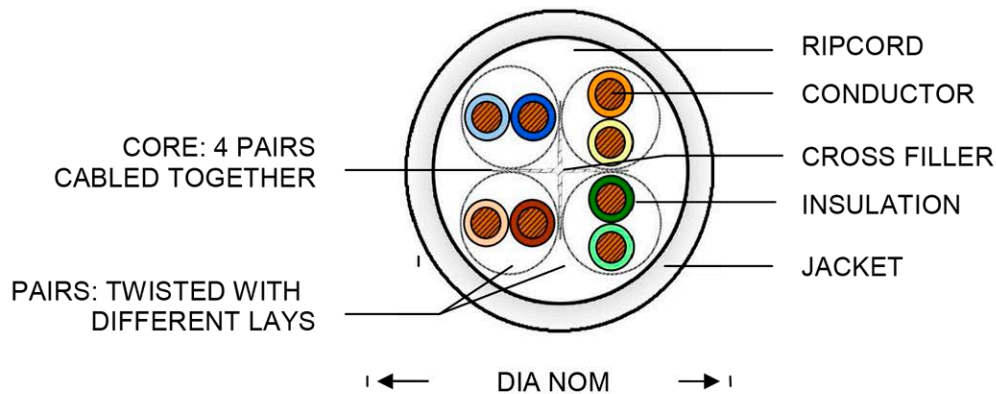


# Category 6 U/UTP Cable

219584-X, 219585-X



## 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 23 AWG, 4-pair U/UTP, PVC or Low Smoke Zero Halogen (LSZH). Cable jacketing shall be a [white, gray] jacket and 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 reel-in-box]. cable shall be AMP NETCONNECT part number 219584-X, 219585-X

## Part Numbers

Description	UL/NEC Ratings	Nominal Diameter		Vp (nom%)	Weight	Package	Part Numbers	
		Dielectric	Outside				White	Gray
Cat 6 U/UTP Cable, 4-Pair,PVC	PVC	1.074mm	6.30mm	66	42kg/km	305M RB	219584-2	219584-4
						305M WR	219584-1	219584-5
						1000M WR	219584-3	219584-6
						500M WR	4-219584-1	4-219584-4
Cat 6 U/UTP Cable, 4-Pair,PVC	LSZH	1.074mm	6.30mm	66	42kg/km	305M RB	219585-2	219585-4
						305M WR	219585-1	219585-5
						1000M WR	219585-3	219585-6
						500M WR	4-219585-1	4-219585-4

# Category 6 U/UTP Cable



219584-X, 219585-X

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	Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ
	Max														
1	2	77	99	75	92	67.8	95	64.8	88	23.0	28	75	78.3	73	75.3
4	3.8	68	91	66	82	66.0	84	64.0	76	23.0	32	64.2	67.5	62.2	64.5
8	5.3	64	82	62	76	49.7	76	47.7	68	24.5	35	58.7	61.4	56.7	58.4
10	6.0	62	85	60	79	47.8	72	45.8	65	25.0	35	56	59.3	54	56.3
16	7.6	59	81	57	74	43.7	67	41.7	60	25.0	35	51.4	54.7	49.4	51.7
20	8.5	58	83	56	75	41.8	65	39.8	59	25.0	35	49.5	52.3	47.5	49.3
25	9.5	56	78	54	71	39.8	65	37.8	59	24.3	36	46.5	49.8	44.5	46.8
31.25	10.7	55	74	53	68	37.9	65	35.9	54	23.6	35	44.3	47.2	42.3	44.2
62.5	15.4	50	73	48	63	31.9	59	29.9	51	23.0	42	34.6	37.9	32.6	34.9
100	19.8	47	71	45	66	27.8	57	25.8	45	23.0	39	27.2	30.4	25.2	27.4
200	29.0	43	64	41	58	21.8	51	19.8	44	20.0	38	14	16.6	12	13.6
250	32.8	41	67	39	56	19.8	59	17.8	40	19.0	38	8.2	11.3	6.2	8.3

## Technical Details

### Materials

Conductors – 23 AWG solid bare copper, 0.554mm

Insulation – Polyethylene

Jacket – 219584-PVC, 219585-LSZH

Filler – Polyethylene

### Electrical Characteristics

Impedance –  $100\Omega \pm 15\%$ , 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

Loop resistance –  $30\Omega$  max/100 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  $\approx 1"$

Operating temperature –  $-20^{\circ}\text{C}$  to  $60^{\circ}\text{C}$

Storage temperature –  $-20^{\circ}\text{C}$  to  $80^{\circ}\text{C}$

Calorific Value – - 219584 : 430.00 MJ/Km

- 219585 : 600.00 MJ/Km

Voltage – 300 Volts AC or DC

### Approvals

RoHS Compliant