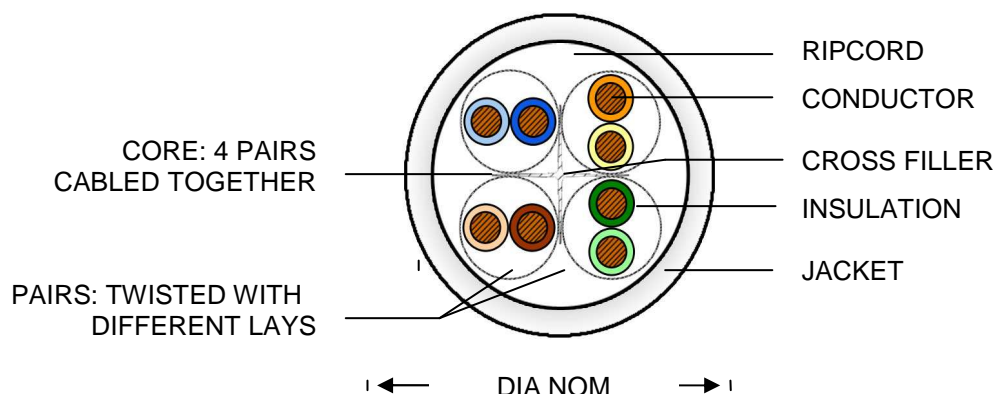


# Category 6 U/UTP Cable

1427200-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 IEEE802.3ab, 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 UTP, UL/NEC CMR rated (FR-PVC). Cable jacketing shall be a [white, gray, or blue] [CMR] 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-1427200-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 CMR	CMR	0.042 in	0.230 in	70	26 lbs	Reel Box	6-1427200-2	6-1427200-4	6-1427200-6
Cat 6 U/UTP Cable, 4-Pair CMR	CMR	0.042 in	0.230 in	70	26 lbs	Reel Box *	9-1427200-2	9-1427200-4	9-1427200-6

Package: Reel Box (1000 ft.), \* for unit measurement in foot

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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
0.772	1.8	79	82	77	79	70	73	67	69	-	-	77.2	80.2	75.2	77.2
1	2	77	80	75	77	68	71	65	67	20	28	75	78.3	73	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	62	65	60	62	48	51	45	47	25	33	56	59.3	54	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	43	46	41	43	22	25	19	21	18	26	14	16.6	12	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	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	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	-	-	-	-

## Technical Details

<b>Materials</b>	
Conductors –	23 AWG solid bare copper
Insulation –	High Density Polyethylene (HDPE), 0.042 in nom dia
Jacket –	FR PVC,CMR, 0.252 in nom dia
Filler –	Polyethylene
<b>Electrical Characteristics</b>	
Impedance –	100Ω ± 5%, 1 MHz to 600 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 –	6.65Ω max/100 m
<b>Mechanical Characteristics</b>	
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
<b>Approvals</b>	
UL File Number E138034	UL 1666
ETL Certificate	
RoHS Compliant	

Specifications subject to change without notice. Revised 08/11

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