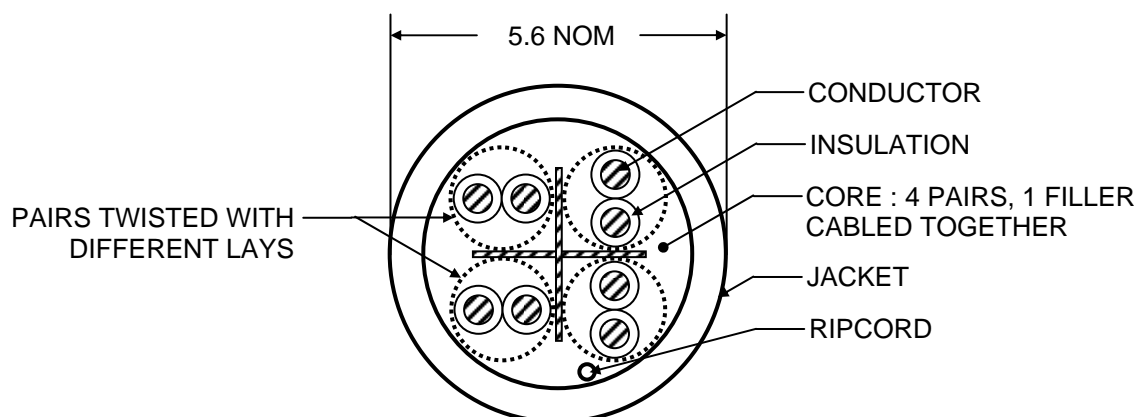


Category 6 Cable  
1427071-2, 1427071-4, 1427071-6



**Description**

AMP NETCONNECT Category 6 (CAT6) cables exceed TIA/EIA-568-B.2-1 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, 100BASE-Tx, token ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog (Broadband, Baseband) and digital video and analog and digital voice (VoIP). 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, 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 [1427071-X].

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

Package: Reel Box (1000 ft.)

# Category 6 Cable

1427071-2, 1427071-4, 1427071-6

## 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)	
		Min	ETL	Min	ETL	Min	ETL	Min	ETL	Min	ETL	Min	ETL	Min	ETL
	Max	79	96.81	77	94.11	70	92.02	67	90.99	-	36.55	77.2	95.18	75.2	92.48
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

## 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
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.

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