

DATA SHEET

1101-06009

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PowerMAX+ Cat.6A U/UTP 23AWG Cable

DINTEK PowerMAX+™ CAT.6A U/UTP is a quality cable which is manufactured to minimize alien cross talk and increase performance. While not a problem at the lower frequencies of Cat 5e and Cat 6 cabling, the higher frequency signals of CAT.6A makes Alien Cross Talk the limiting noise source for these systems. DINTEK cables are designed to minimize this crosstalk.

These high-speed network cables are ideal for home or office networks. Used to connect computers, game consoles, TV and media players to your modem, routers, switches and other network devices. Suitable for networks running at 10Mbps, 100Mbps or 1000Mbps or 10Gbps.

Applications

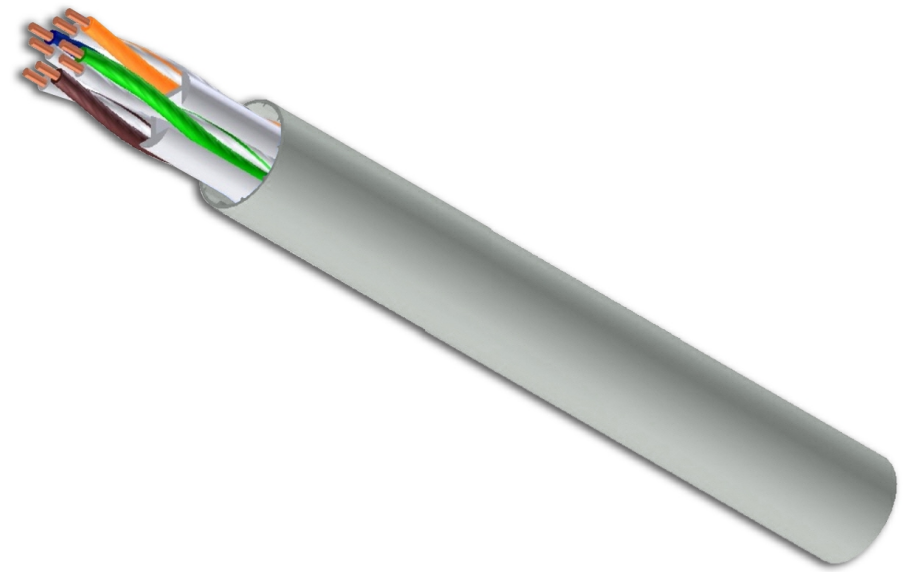
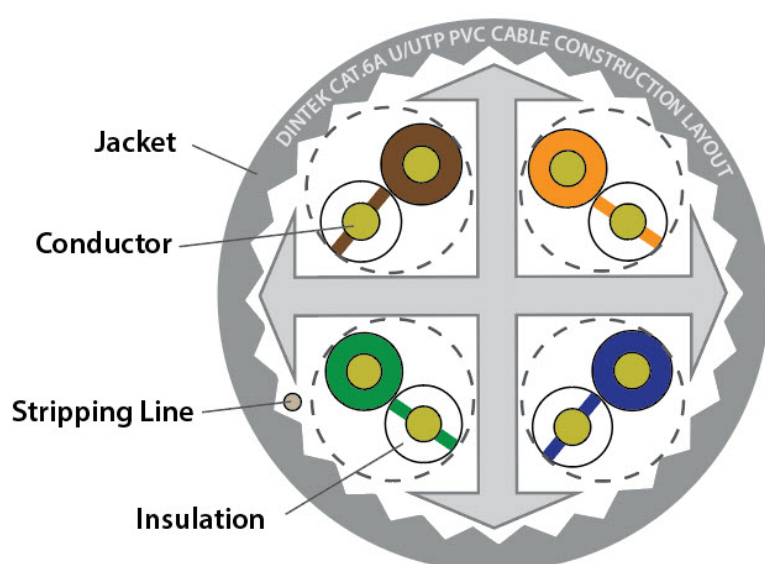
- 10GBASE-T Ethernet
- 100BASE-TX Fast Ethernet
- 1000BASE-TX Gigabit Ethernet
- 1000BASE-T Gigabit Ethernet
- 10BASE-TX Ethernet
- ATM CB1G
- 155/622 Mbps ATM
- 100 Mbps TP-PMD
- 100VG-AnyLAN

Standards Conformance

- ISO/IEC61156-5 2nd edition

Independently Verified Certifications

- Delta Certified for Category 6A U/UTP Horizontal Cable



Performance Statistics

Frequency Mhz	Insertion Loss dB / 100mtrs	NEXT (dB)	Return Loss (dB)
1	2.1	75.3	20
4	3.8	66.3	23.0
10	5.9	60.3	25.0
16	7.5	57.2	25.0
20	8.4	55.8	25.0
31.25	10.5	52.9	23.6
62.5	15	48.4	21.5
100	19.1	45.3	20.1
200	27.6	40.8	18.0
250	31.1	39.3	17.3
300	34.3	38.1	17.3
400	40.1	36.3	17.3
500	45.3	34.8	17.3

Note1: All tests include 401 points swept frequency measurements.
 Note2: All electrical characteristics are given at 20°C

Ordering Information

Product Number	Product Name	Jacket Type	Color	Length Qty
1101-06009	PowerMAX+ Cat.6A U/UTP 23AWG Cable	PVC	Gray	305m/Reel
1101-06010	PowerMAX+ Cat.6A U/UTP 23AWG Cable LSZH	LSZH	Gray	305m/Reel

Technical Specifications

Construction		
Conductor		
Material	Pure Annealed Copper	
Wire Size	23AWG	
Insulation		
Material	PE	
Thickness	0.21	
Diameter	1.03 ± 0.05	
Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown	
Unaged Elongation (%)	300% at (100°C x 48hrs)	
Unaged Tensile Strength	2400psi	
Central Element	PE Cross Filler	
Jacket		
Material	PVC	
Diameter	8. 3 ± 0.3	
Color	Gray	
Central Element	PW Cross Filler	
Physical Ranges		
Insulation		
Min. Tension Strength	Before Aging	2400psi
	After Aging	75% (at 100°C for 48hrs)
Min Elongation (%)	Before Aging	300% at (100°C x 48hrs)
	After Aging	75% (at 100°C for 48hrs)
Jacket		
Min. Tension Strength	Before Aging	Min. 2000psi
	After Aging	85% (100°C X 168hrs)
Min Elongation (%)	Before Aging	100%
	After Aging	50% (100°C X 168hrs)
Cold Bend Test	-20 ± 20C X 4hrs no. crack	
Dielectric Strength	AC 1.7 KV for 2 s	
Min. Bending Radius	65mm	
Max. Pulling Tension	8-10kg (25lbs)	
Installation Temperature	-10°C to +60°C	
Operating Temperature	-10°C to +60°C	
Electrical		
Conductor Resistance	9.5 Ohm /100m at 20°C	
DC Resistance Unbalance	4% max	
Pair-to-Ground Capacitance Unbalance	1600 pF/km	
Dielectric Strength of Insulation	AC 1.7 KV for 2 s	
Insulation Resistance Test	150M ohm/km	
Mutual Capacitance	5600pf/100m	
Impedance	125 Ohm 20%(64KHz). 100 Ohm 15%(1~500MHz)	
Spark test	2000 ± 250 V ac	

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