

DATA SHEET

1101-04441CH

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PowerMAX Cat.6 U/UTP 23AWG PVC Cable - Gray

The DINTEK PowerMAX™ Category 6 solution is guaranteed to exceed ClassE channel specifications as set down in International standards. Our PowerMAX™ solution comprises Category 6 component compliant patch panels, keystones and patch cords. When combined with DINTEK's Category 6 UTP cable, an end-to-end channel exists that maximises data throughput and provides headroom for all future technologies operating beyond one Gigabit.

Applications

- Voice; ISDN
- 100BASE-T Ethernet (IEEE802.3)
- 155/622Mbps 1.2/2.4 Gbps ATM
- 1000Mbps Gigabit Ethernet
- 550MHz Broadband Video

Standards Conformance

- ACMA Approved to AS/CA S008
- ISO/IEC11801 2nd edition CLASS E
- ANSI/TIA-568-2.D standard
- CENELEC EN 50173-1, CENELEC
- PoE++ & 4PPoE - IEEE 802.3bt level 3 & 4
- Flame Rated: CM

Independently Verified Certifications

- ETL Verified to ANSI/TIA-568-2.D Category 6
- ACMA Approved to AS/CA S008

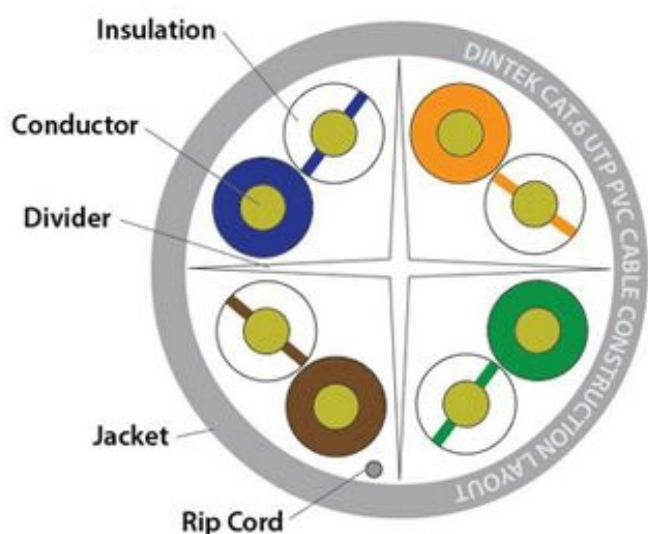


Cable Features

- Conductor sizes for Cat.6 are set at 23AWG.
- By keeping the gauge size of the conductor larger, there is less heat generation caused and less drop of voltage over distance.
- Exceeds current ANSI/TIA and ISO Standards for performance.
- Capable of handling the latest ver. of power over Ethernet
- Cable has been tested over 500Mhz and has shown performance testing results allowing 10Gbit Ethernet transmission up to a length of 70mtrs

Performance Statistics

Frequency Mhz	Insertion Loss dB / 100mtrs	NEXT (dB)	Return Loss (dB)
1	1.8	78.0	37.8
4	3.0	76.0	36.5
10	5.2	70.0	31.0
16	6.8	68.0	31.0
20	7.6	64.0	31.0
31.25	9.3	62.5	30.0
62.5	13.2	60.0	30.0
100	18.1	57.0	29.0
200	26.1	52.5	27.0
250	28.9	50.0	25.1
300	31.8	46.0	23.4
400	36.5	43.0	21.9
500	41.8	42.0	20.6



Ordering Information

Product Number	Product Name	Jacket Type	Color	Length Qty
1101-04441CH	PowerMAX Cat.6 U/UTP 23AWG PVC Cable - Gray	PVC	Gray	305m/Box

Technical Specifications

Construction		
Conductor		
Material	Bare Copper	
Wire Size	23AWG	
Insulation		
Material	PE	
Thickness	Nominal: 1.011 mm	
Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown	
Unaged Elongation (%)	Min. 300%	
Unaged Tensile Strength	Min. 1.683 Kgf/mm ²	
Jacket		
Material	Flame Retardant PVC	
Thickness	0.5±0.02 mm	
Diameter	6.0±0.2 mm	
Color	Gray standard (Assorted upon request)	
	CM	
Physical Ranges		
Insulation		
Min. Tension Strength		
	Before Aging	Min. 1.683 Kgf/mm ²
	After Aging	75% before aging (100°C X 48hrs)
Min Elongation (%)		
	Before Aging	300%
	After Aging	75% before aging (100°C X 48hrs)
Jacket		
Min. Tension Strength		
	Before Aging	Min. 1.407 Kgf/mm ²
	After Aging	75% before aging (100°C X 168hrs)
Min Elongation (%)		
	Before Aging	Min. 100%
	After Aging	50% before aging (100°C X 168hrs)
Cold Bend Test	-20 ± 2°C x 4hrs no. crack	
Dielectric Strength	2500 V dc / 2 seconds	
Min. Bending Radius	50mm	
Max. Pulling Tension	25 lbs	
Installation Temperature	0°C to +50°C	
Operating Temperature	-20°C to +70°C	
Electrical		
Conductor Resistance	Max. 7.32 Ω/100m at 20°C	
DC Resistance Unbalance	Max. 2%	
Pair-to-Ground Capacitance Unbalance	Max. 160 pF/100m	
Dielectric Strength of Insulation	2500 V dc / 2 seconds	
Insulation Resistance Test	Min. 5000 MΩ·Km	
Mutual Capacitance	Max. 5600 pF/100m	
Impedance 1~100MHz	100Ω ± 15%	
Impedance 100~250MHz	100Ω ± 22%	

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