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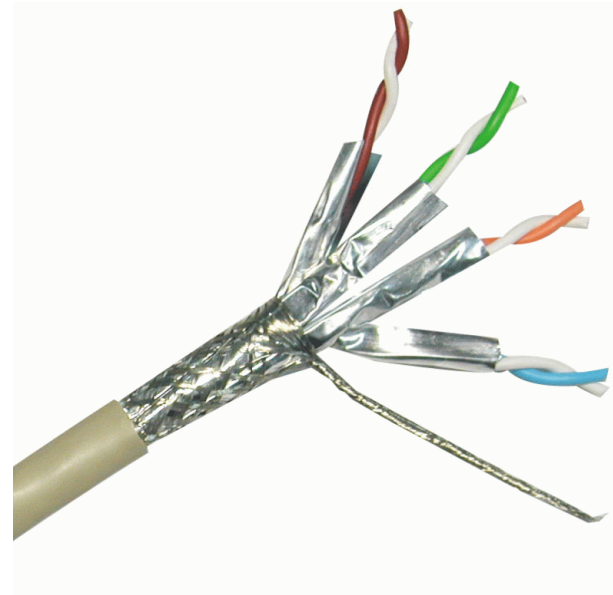
PowerMAX Cat.6 S/FTP 23AWG PVC Cable

The DINTEK PowerMAX™ Category 6 solutions are guaranteed to exceed ClassE channel specifications as set down in International standards.

Our PowerMAX™ shielded solution comprises Category 6 component compliant patch panels, keystones and patch cords.

When combined with DINTEK's Category 6 FTP & S/FTP cable, an end-to-end channel exists that maximises data throughput and provides headroom for all future technologies operating beyond one Gigabit.

Combined with other DINTEK PowerMAX™ shielded products, our Category 6 cable is the perfect solution to your voice and data communications needs.



Applications

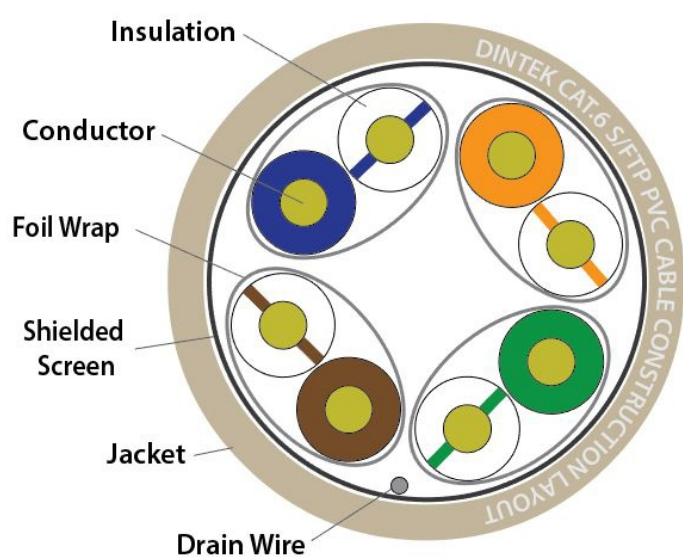
- 10 Gigabit Ethernet
- 1000BASE-TX Gigabit Ethernet
- 550MHz Broadband Video
- 100BASE-TX
- Voice, T1, ISDN
- 155/622 Mbps ATM

Standards Conformance

- ANSI/TIA-568-2.D Cat.6
- 2nd Edition ISO/IEC 11801 CLASS E
- CENELEC EN 50173-1, CENELEC EN 50288-5-1
- IEC 61156-5 for horizontal cable
- Complies with RoHS and REACH Directives.
- IEEE 802.3af-2003 , 802.3at-2009, IEEE 802.3bt
- Flame Retardancy is verified according to IEC 60332-1-2.
- PoE++ & 4PPoE - IEEE 802.3bt level 3 & 4

Independently Verified Certifications

3P Compliance Statement No. 113770



Performance Statistics

Frequency Mhz	Insertion Loss dB / 100mtrs	NEXT (dB)	
1	2.0	74.3	
4	3.8	65.3	
10	6.0	59.3	
16	7.6	56.2	
20	8.5	54.8	
31.25	10.7	51.9	
62.5	15.4	47.4	
100	19.8	44.3	
150	24.9	41.4	
200	29.0	39.8	
250	32.8	38.3	

Technical Specifications

Construction		
Conductor		
Material	Bare Copper	
Wire Size	23 AWG	
Insulation		
Material	PE foam	
Thickness	Nominal: 0.414 mm	
Diameter	Nominal: 1.387 mm	
Colors	Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown	
Unaged Elongation (%)	Min. 100%	
Unaged Tensile Strength	Min. 0.816 Kgf/mm ²	
Screen Material	Aluminum-Mylar tape and tinned copper braid	
Jacket		
Material	Flame Retardant PVC	
Thickness	Nominal: 0.5 mm	
Diameter	Nominal: 7.2 mm	
Color	Gray	
	CM	
Physical Ranges		
Insulation		
Min. Tension Strength	Before Aging	Min. 0.816 Kgf/mm ²
Min Elongation (%)	Before Aging	Min. 100%
Jacket		
Min. Tension Strength	Before Aging	Min. 1.407 Kgf/mm ²
	After Aging	Min. tensile strength retention:75% Aging at 100°Cfor 168Hrs
Min Elongation (%)	Before Aging	Min. 100%
	After Aging	Min. elongation retention:50% Aging at 100°Cfor 168Hrs
Dielectric Strength	1500 V dc / 2 seconds	
Min. Bending Radius	29mm	
Max. Pulling Tension	25lbs	
Installation Temperature	0°C to +50°C	
Operating Temperature	-20°C to +70°C	
Electrical		
Conductor Resistance	Max. 9.38 Ω/100m at 20°C	
DC Resistance Unbalance	Max. 2%	
Pair-to-Ground Capacitance Unbalance	Max. 160 pF/100m	
Dielectric Strength of Insulation	1500 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 ± 15%	

DINTEK Electronic Limited

5F., No.8, Ln. 97, Wugong Rd.
Xinzhuang Dist., New Taipei City 242
Taiwan (R.O.C.)

P: Office: +886-2-22997898 E-mail: sales@dintek.com.tw W: www.dintek.com.tw

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