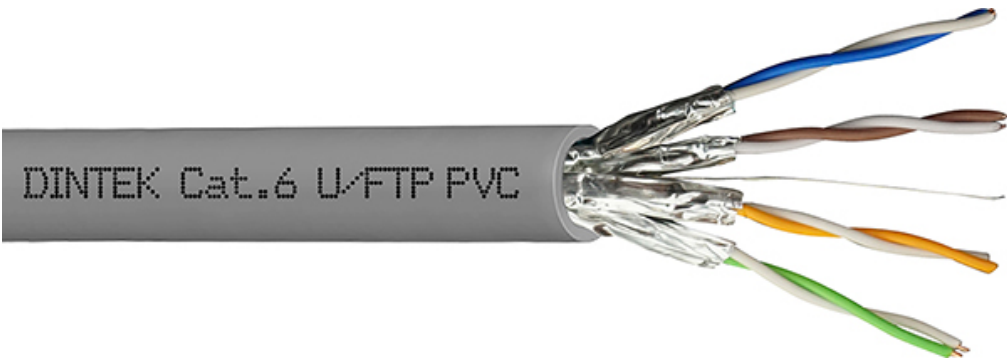


PowerMAX500 4P Cat.6 U/FTP 23AWG PVC Cable - Gray

DINTEK PowerMAX500™ shielded Cat.6 / Class E U/FTP PVC cable is guaranteed to exceed Cat.6 specifications as set down in ANSI/TIA and ISO/IEC standards. Our PowerMAX500™ solution comprises shielded Cat.6 component compliant patch panels, keystones, and patch cords.

When combined with DINTEK’s shielded Cat.6 / Class E U/FTP PVC cable, an end-to-end channel exists that maximizes data throughput and provides headroom for future technologies operating to, and beyond Gigabit Ethernet.



Application

- Horizontal and backbone cable
- 1000BASE-TX Gigabit Ethernet / 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet / 10BASE-TX Ethernet
- 100 Mbps TP-PMD / 100VG-AnyLAN
- Broadband Video / Voice / T1 / ISDN
- 10Gbit (500Mhz) Transmission up to length of 70Mtrs

Features

- Capable of handling the latest versions of Power over Ethernet
- Conductor sizes for PowerMAX500™ Cat.6 set at 23AWG
- PVC jacketed 4 pair telecommunications cable
- Successful transmission at 500Mhz up to a length of 70Mtrs
- EZI-Pull 305Mtr Reel for trouble free installation
- Foil wraps act to prevent crosstalk between twisted pairs

Standards Conformance

- Performance - ANSI/TIA 568.2-D Cat.6 / ISO/IEC 11801
- Structural - EN 13501-6:2014 | IEC 61156-5 | EN 50288-5-1
- PoE capability - IEEE 802.3bt level 3 & 4 (PoE++ & 4PPoE)
- Environmental - Conforms to RoHS and REACH Directives
- Flame testing - EN 60332-1-2

Performance Statistics

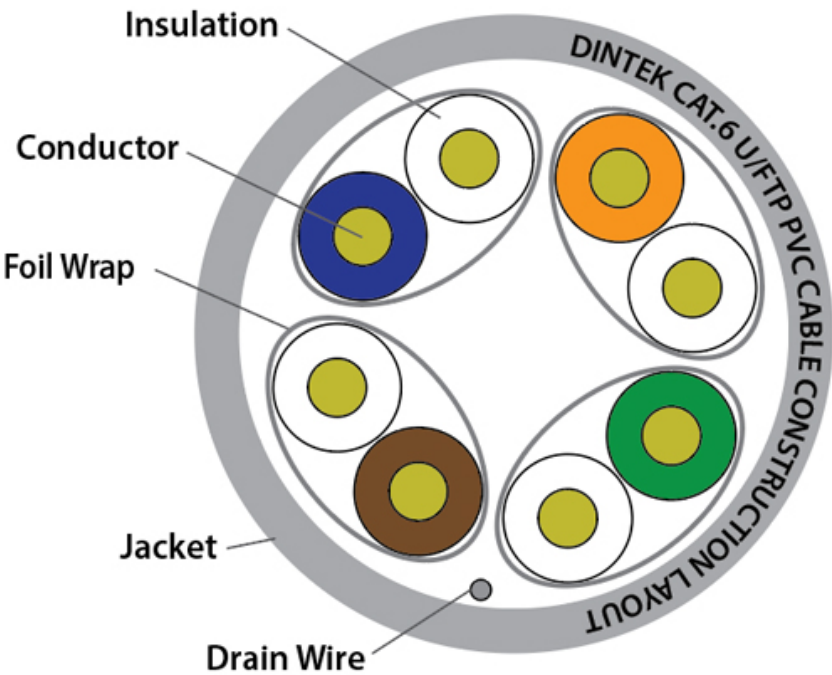
Frequency Mhz	Insertion Loss (dB/100mtrs)	NEXT (dB)	Return Loss (dB)
1	2.0	74.3	20.0
4	3.8	65.3	23.0
10	6.0	59.3	25.0
16	7.6	56.3	25.0
20	8.5	54.8	25.0
31.25	10.7	51.9	23.6
62.5	15.4	47.4	21.5
100	19.8	44.3	20.1
125	22.4	42.8	19.4
200	29.0	39.8	18.0
250	32.8	38.3	17.3

Meets and **exceeds** values above based on 100 meters (328 ft.) at 20°C as per ANSI/TIA-568-D.2 for Cat.6 / ISO/IEC 11801 Class E / EN 50173.

DINTEK PowerMAX500™ Cat.6 / Class E cables have additionally been tested up to 500Mhz and have shown performance results that allow for successful transmission of 10Gbit Ethernet up to 70Mtrs.

Independent Certification

- ETL Certification according to ANSI / TIA-568.2-D Cat.6
- UL Cable Fire Rating - CM as per UL 444



Ordering Information

Product Number	Product Name	Jacket Rating	Color	Length Qty
1107-04011	PowerMAX500 4P Cat.6 U/FTP 23AWG PVC Cable	CM	Gray	305Mtr Reel

Technical Specifications

Construction	
Conductor	
Material	Pure Annealed Copper
Wire Size	23AWG
Strand Type	Solid Core
No. Of Pairs	4P
Insulation	
Material	Polyethylene
Thickness	0.40mm ± 0.03mm
Diameter	1.35mm ± 0.1mm
Colors	Blue/White Orange/White Green/White Brown/White
Pair Foil Wrap	Aluminum-mylar tape with tinned copper drain
Jacket	
Material	PVC
Thickness	0.5 mm ± 0.05mm
Diameter	6.60mm ± 0.1mm
Color	Gray
Jacket Rating	CM
Foil Shield	None
Braided Shield	None
Physical Ranges	
Jacket	
Cold Bend Test	-20 ± 2°C x 4hrs no crack
Min. Bending Radius	Min. 8 x Cable Diameter
Max. Pulling Tension	110N
Installation Temperature	0°C to +50°C
Operating Temperature	-20°C to +60°C
Electrical	
Conductor Resistance	Max. 9.38 Ω/100m at 20°C
DC Resistance Unbalance	Max. 2% at 20°C
Pair-to-Ground Capacitance Unbalance	Max. 1600 pF/km at 1 kHz
Dielectric Strength of Insulation	DC 1 KV for 1 min
Insulation Resistance Test (500V)	Min. 5000 MΩ/Km at 20°C
Mutual Capacitance	Max. 5600 pF/100m at 1 kHz
Impedance 1~250MHz	100Ω ± 5%
Nominal Velocity Of Propagation	78%

DINTEK Electronic Limited

台北市中山區中山北路二段96號 嘉新第二大樓五樓N511
N511, 5F, 2nd Bldg, No. 96, Sec. 2, Zhongshan N. Rd.Zhongshan Dist., Taipei City 10449, Taiwan
P: +886-2-25223138 E-mail: sales@dintek.com.tw W: www.dintek.com.tw

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