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PowerMAX+ 4P Cat.6A S/FTP 23AWG PVC Cable - Gray

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

When combined with DINTEK's shielded Cat.6A / Class EA S/FTP PVC cable, an end-to-end channel exists that maximizes data throughput and provides headroom for future technologies operating to, and beyond 10 Gigabit Ethernet.



Application

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

Features

- Capable of handling the latest versions of Power over Ethernet
- Conductor sizes for PowerMAX+™ Cat.6A set at 23AWG
- PVC jacketed 4 pair telecommunications cable
- Successful transmission at 500Mhz up to a length of 100Mtrs
- EZI-Pull 305Mtr Reel for trouble free installation
- Foil wraps act to prevent crosstalk between twisted pairs
- Braided shield helps prevent EMI/RFI & AXT from entering cable

Standards Conformance

- Performance - ANSI/TIA 568.2-D Cat.6A / ISO/IEC 11801
- Structural - EN 13501-6:2014 | IEC 61156-5 | EN 50288-10-1
- PoE capability - IEEE 802.3bt level 3 & 4 (PoE++ & 4PPoE)
- Environmental - Conforms to RoHS and REACH Directives
- Flame testing - EN 60332-1-2

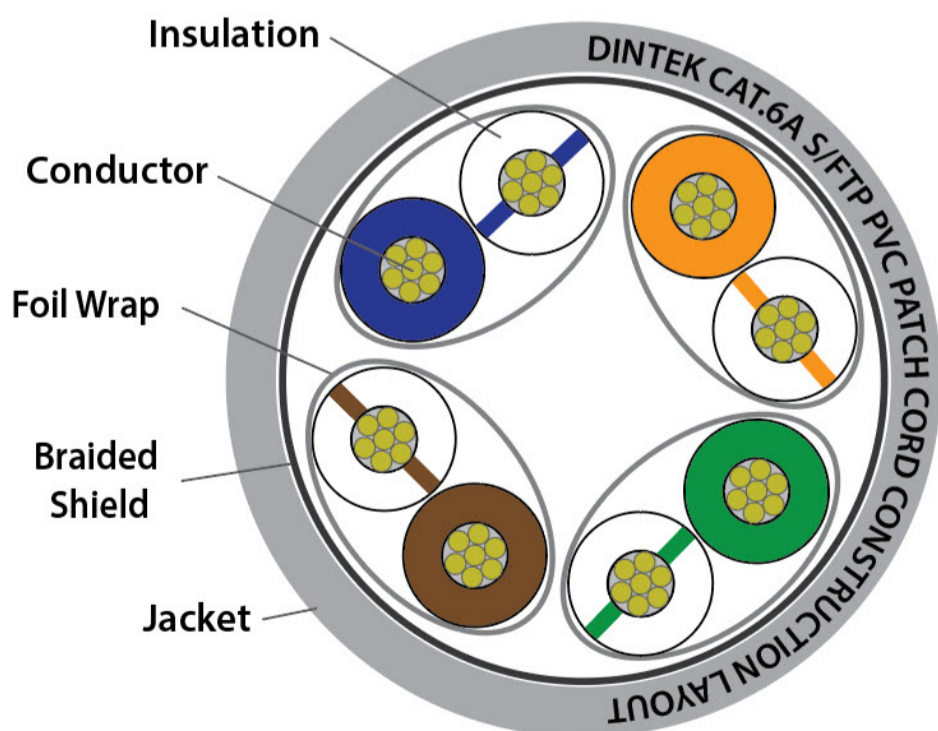
Performance Statistics

Frequency Mhz	Insertion Loss dB/100mtrs	NEXT (dB)	Return Loss (dB)
1	2.1	74.3	20.0
4	3.8	65.3	23.0
8	5.3	60.8	24.5
10	5.9	59.3	25.0
16	7.5	56.2	25.0
20	8.4	54.8	25.0
25	9.4	53.3	24.3
31.25	10.5	51.9	23.6
62.5	15.0	47.4	21.5
100	19.1	44.3	20.1
200	27.6	39.8	18.0
250	31.1	38.3	17.3
300	34.3	37.1	16.8
400	40.1	35.3	15.9
500	45.3	33.8	15.2

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

Independent Certification

- UL Cable Fire Rating - CM as per UL 444



Ordering Information

Product Number	Product Name	Jacket Rating	Color	Length Qty
1105-06027	PowerMAX+ 4P Cat.6A S/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	0.429mm ± 0.01mm
Diameter	1.42mm ± 0.05mm
Colors	Blue/White Orange/White Green/White Brown/White
Pair Foil Wrap	Aluminum-mylar tape
Jacket	
Material	PVC
Thickness	0.5 mm ± 0.05mm
Diameter	7.30mm ± 0.3mm
Color	Gray
Jacket Rating	CM
Foil Shield	None
Braided Shield	Tinned copper braid

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 1.0 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 ~ 500Mhz	100Ω ± 15%
Nominal Velocity Of Propagation	78%

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