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

DINTEK PowerMAX+™ shielded Cat.6A / Class EA U/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 U/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

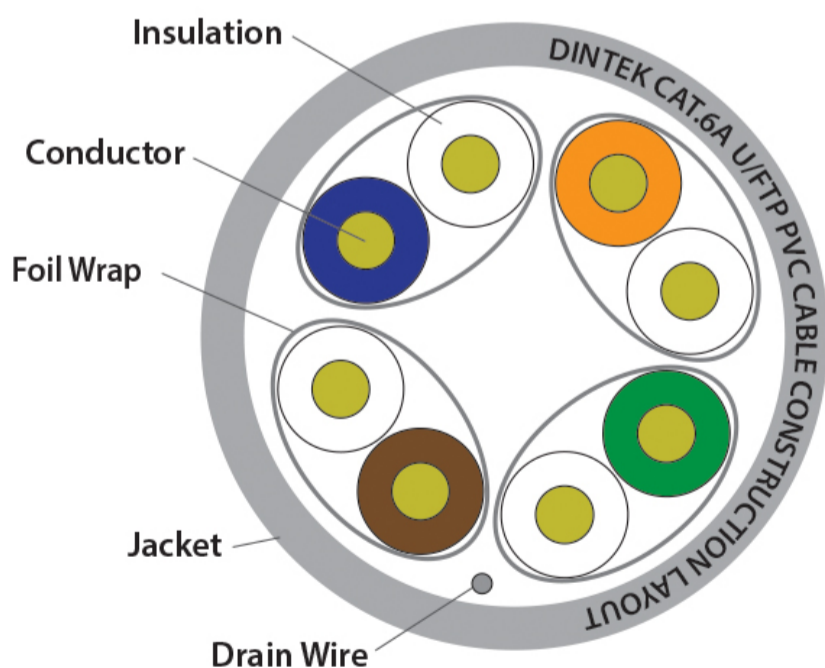
- Capable of handling the latest versions of Power over Ethernet
- Conductor sizes for PowerMAX+™ Cat.6A set at 23AWG
- PVC jacketed 4 pair telecommunications cable
- Successful transmission at 500Mhz up to a length of 100Mtrs
- EZI-Pull 305Mtr Reel for trouble free installation
- Foil wraps act to prevent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

### 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

### Independent Certification

- UL Cable Fire Rating - CM as per UL 444



### 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
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.

### Ordering Information

Product Number	Product Name	Jacket Rating	Color	Length Qty	Qty / Pallet
1105-06023	PowerMAX+ 4P Cat.6A U/FTP 23AWG PVC Cable	CM	Gray	305Mtr Reel	27

## Technical Specifications

### Construction

#### Conductor

<b>Material</b>	Pure Annealed Copper
<b>Wire Size</b>	23AWG
<b>Strand Type</b>	Solid Core
<b>No. Of Pairs</b>	4P

#### Insulation

<b>Material</b>	Polyethylene
<b>Thickness</b>	0.396mm +0.05 / - 0.011 mm
<b>Diameter</b>	1.35mm ± 0.1mm
<b>Colors</b>	Blue/White   Orange/White   Green/White   Brown/White
<b>Pair Foil Wrap</b>	Aluminum-mylar tape with tinned copper drain

#### Jacket

<b>Material</b>	PVC
<b>Thickness</b>	0.5 mm ± 0.02mm
<b>Diameter</b>	6.60mm ± 0.5mm
<b>Color</b>	Gray
<b>Jacket Rating</b>	CM
<b>Foil Shield</b>	None
<b>Braided Shield</b>	None

### Physical Ranges

#### Jacket

<b>Cold Bend Test</b>	-20 ± 2°C x 4hrs no crack
<b>Min. Bending Radius</b>	Min. 8 x Cable Diameter
<b>Max. Pulling Tension</b>	110N
<b>Installation Temperature</b>	0°C to +50°C
<b>Operating Temperature</b>	-20°C to +60°C

### Electrical

<b>Conductor Resistance</b>	Max. 9.38 Ω/100m at 20°C
<b>DC Resistance Unbalance</b>	Max. 2% at 20°C
<b>Pair-to-Ground Capacitance Unbalance</b>	Max. 1600 pF/km at 1 kHz
<b>Dielectric Strength of Insulation</b>	DC 1 KV for 1 min
<b>Insulation Resistance Test (500V)</b>	Min. 5000 MΩ/Km at 20°C
<b>Mutual Capacitance</b>	Max. 5600 pF/100m at 1 kHz
<b>Impedance 1 ~ 500Mhz</b>	100Ω ± 15%
<b>Nominal Velocity Of Propagation</b>	78%

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