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PowerMAX 4P Cat.6 U/UTP 24AWG PVC Cable - Light Gray

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

When combined with DINTEK's unshielded Cat.6 / Class E U/UTP PVC cable, an end-to-end channel exists that maximizes data throughput and provides headroom for future technologies operating to, and beyond 1 Gigabit Ethernet.



Application

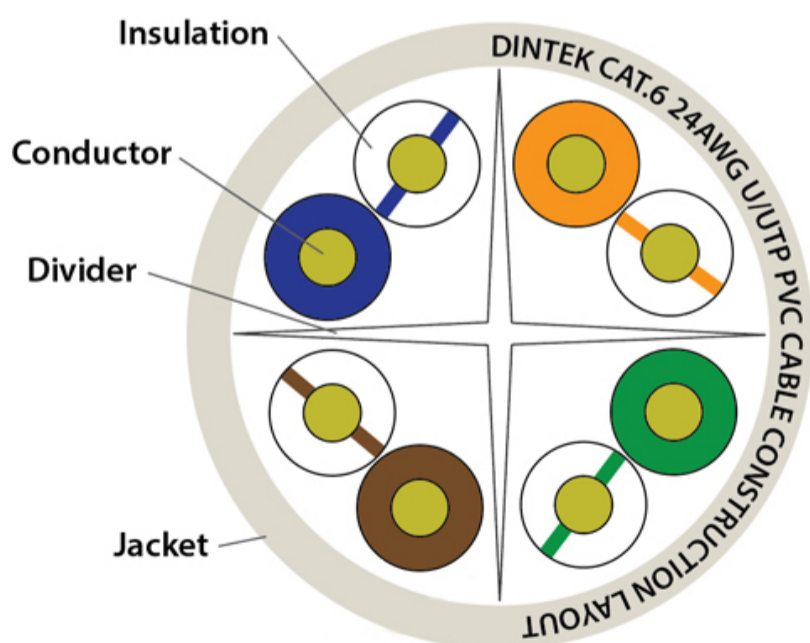
- Horizontal and backbone cable
- 1000BASE-TX Gigabit Ethernet / 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet / 10BASE-TX Ethernet
- 100 Mbps TP-PMD / 100VG-AnyLAN
- Broadband Video / Voice / T1 / ISDN
- 10 Gigabit (500Mhz) Transmission up to length approx. 40Mtrs

Standards Conformance

- Performance - ANSI/TIA 568.2-D Cat.6 / ISO/IEC 11801
- Structural - EN 13501-6:2014 | IEC 61156-5 | EN 50288-6-1
- 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

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



Features

- Capable of handling the latest versions of Power over Ethernet
- Conductor size set at 24AWG
- PVC jacketed 4 pair telecommunications cable
- Successful transmission at 500Mhz up to length approx. 40Mtrs
- EZI-Pull 305Mtr Box for trouble free installation

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	56.2	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	19.4
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

Ordering Information

Product Number	Product Name	Jacket Rating	Color	Length Qty	Qty / Pallet
1101-04304	PowerMAX 4P Cat.6 U/UTP 24AWG PVC Cable	CM	Light Gray	305m Box	24 or 36
1101-04305	PowerMAX 4P Cat.6 U/UTP 24AWG PVC Cable	CM	Blue	305m Box	24 or 36

Technical Specifications

Construction

Conductor	
Material	Pure Annealed Copper
Wire Size	24AWG
Strand Type	Solid Core
No. Of Pairs	4P

Insulation	
Material	Polyethylene
Thickness	0.21mm ± 0.01mm
Diameter	0.95mm ± 0.1mm
Colors	Blue/White Orange/White Green/White Brown/White
Pair Foil Wrap	None
Unaged Tensile Strength	Min. 1.683 Kgf/mm ²

Jacket	
Material	PVC
Thickness	0.5 mm ± 0.05mm
Diameter	5.7mm ± 0.3mm
Color	Light Gray (assorted upon request)
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. 4 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 ± 15%
Nominal Velocity Of Propagation	67%

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