

PowerMAX500 4P Cat.6 U/UTP 23AWG LSZH Dca Cable - Blue

DINTEK PowerMAX500™ unshielded Cat.6 / Class E U/UTP LSZH cable is guaranteed to exceed Cat.6 specifications as set down in ANSI/TIA and ISO/IEC standards. Our PowerMAX500™ 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 LSZH cable, an end-to-end channel exists that maximizes data throughput and provides headroom for future technologies operating to, and beyond Gigabit Ethernet.



Applications

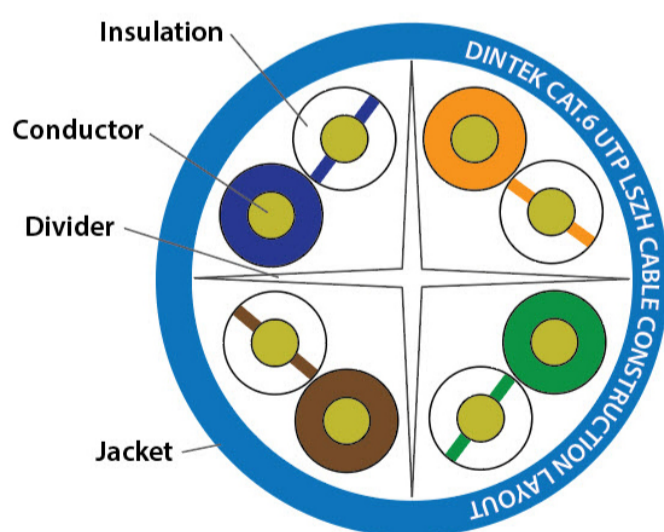
- Horizontal and backbone cable
- 1000BASE-TX Gigabit Ethernet / 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet / 10BASE-TX Ethernet
- 100 Mbps TP-PMD / 100VG-AnyLAN
- Broadband Video / Voice / T1 / ISDN
- 10Gbit (500Mhz) Transmission up to length of 70Mtrs

Standards Compliance

- 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 | EN61034-2 | EN 60754-1/2

Independent Certification

- ETL Certification according to ANSI / TIA-568.2-D Cat.6
- CPR Reaction To Fire Classification - Dca,s2,d2,a1 as per EN 50399



Features

- Capable of handling the latest versions of Power over Ethernet
- Conductor sizes for PowerMAX500™ Cat.6 set at 23AWG
- LSZH jacketed 4 pair telecommunications cable
- Successful transmission at 500Mhz up to a length of 70Mtrs
- 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	56.3	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.

Ordering Information

Product Number	Product Name	CPR Class	Color	Length Qty
1101-04049	PowerMAX500 4P Cat.6 U/UTP 23AWG LSZH Dca Cable	Dca,s2,d2,a1	Blue	305Mtr Box
1101-04046	PowerMAX500 4P Cat.6 U/UTP 23AWG LSZH Dca Cable	Dca,s2,d2,a1	Gray	305Mtr Box
1101-04060	PowerMAX500 4P Cat.6 U/UTP 23AWG LSZH Dca Cable	Dca,s2,d2,a1	Yellow	305Mtr Box
1101-04061	PowerMAX500 4P Cat.6 U/UTP 23AWG LSZH Dca Cable	Dca,s2,d2,a1	Red	305Mtr Box
1101-04056	PowerMAX500 4P Cat.6 U/UTP 23AWG LSZH Dca Cable	Dca,s2,d2,a1	Green	305Mtr Box

Technical Specifications

Construction

Conductor

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

Insulation

Material	Polyethylene
Thickness	0.21mm ± 0.01mm
Diameter	0.98mm ± 0.05mm
Colors	Blue/White Orange/White Green/White Brown/White
Pair Foil Wrap	None

Jacket

Material	LSZH
Thickness	0.5 mm ± 0.05mm
Diameter	5.70mm ± 0.3mm
Color	Blue
CPR Reaction To Fire Classification	Dca,s2,d2,a1
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	10Kg / 25 lbs
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 ~ 250Mhz	100Ω ± 5%
Nominal Velocity Of Propagation	67%

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