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PowerMAX+ 4P Cat.6A U/FTP LSZH Dca Cable - Blue

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

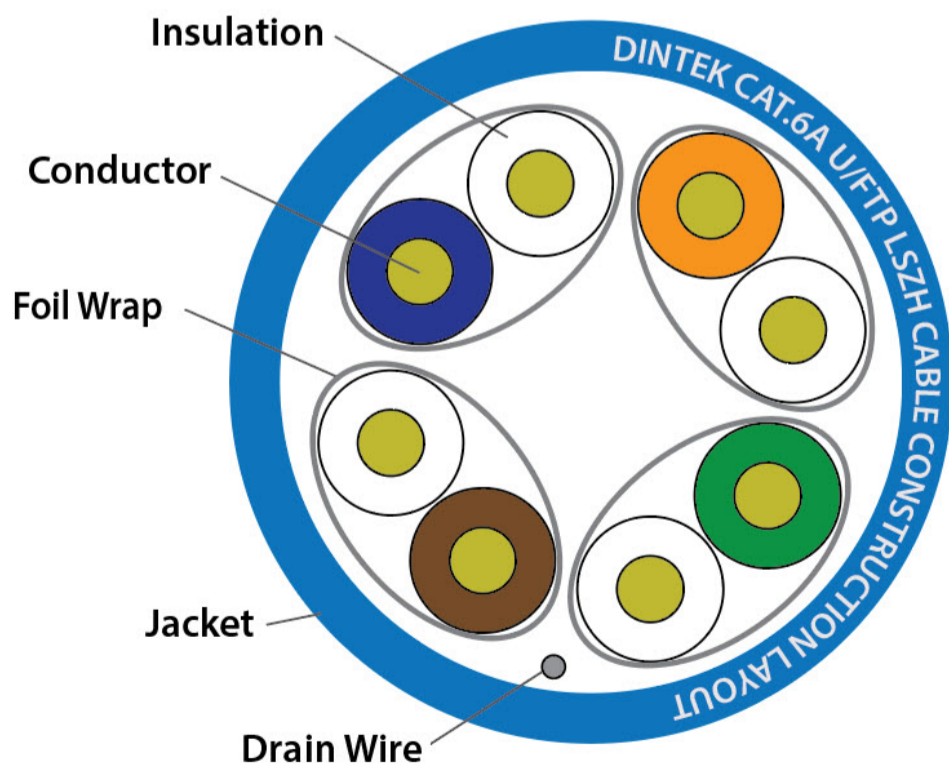
- Horizontal and backbone cable
- 10GBASE-T 10 Gigabit Ethernet
- 1000BASE-TX Gigabit Ethernet / 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet / 10BASE-TX Ethernet
- 100VG-AnyLAN / Broadband Video / Voice / T1 / ISDN
- 10 Gigabit (500Mhz) Transmission up to length of 100Mtrs

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 | EN61034-2 | EN 60754-1/2

Independent Certification

- ETL Certification according to ANSI / TIA-568.2-D Cat.6A
- 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 PowerMAX+™ Cat.6A set at 23AWG
- LSZH 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

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	Reaction To Fire Classification	Color	Length Qty
1105-06026	PowerMAX+ 4P Cat.6A U/FTP 23AWG LSZH Dca Cable	Dca,s2,d2,a1	Blue	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	0.396mm +0.05 / - 0.011 mm
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	LSZH
Thickness	0.5 mm ± 0.02mm
Diameter	6.60mm ± 0.5mm
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 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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