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PowerMAX7 4P Cat.7 S/FTP 23AWG LSZH Dca Cable - Gray

DINTEK PowerMAX7™ shielded Cat.7 / Class F S/FTP LSZH Dca cable is guaranteed to exceed Cat.7 specifications as set down in ISO/IEC standards. Our PowerMAX7™ solution comprises shielded Cat.7 component compliant keystones, patch cords and unloaded patch panel options, both straight and angled.

When combined with DINTEK's shielded Cat.7 / Class F S/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 / Datacenter cabling
- 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 (600Mhz) Transmission up to length of 100Mtrs

Standards Conformance

- Performance - EN 50173-1 / 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 EN 50173-1 and ISO/IEC 11801
- CPR Reaction To Fire Classification - Dca,s2,d2,a1 as per EN 50399

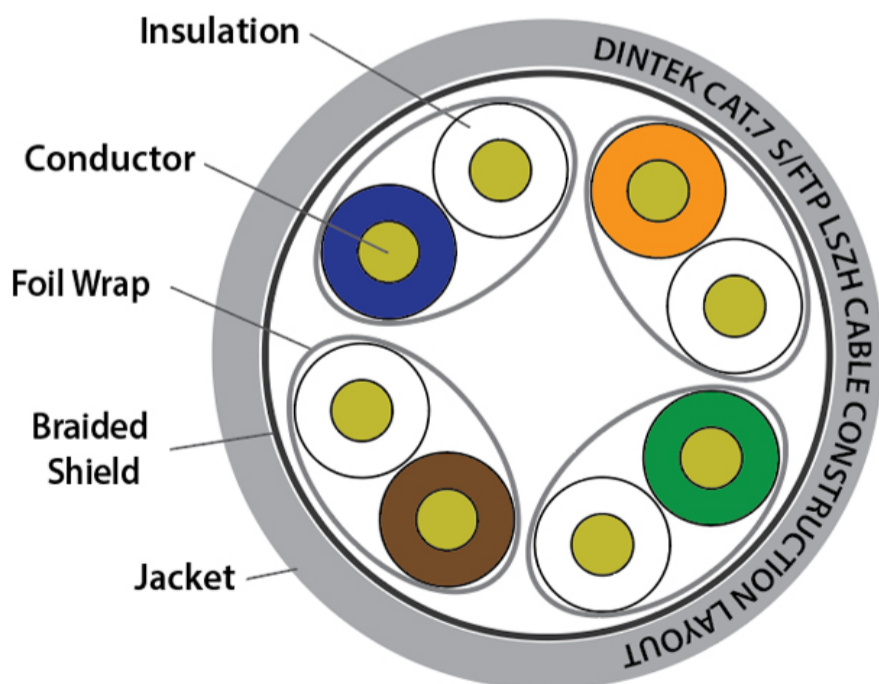
Features

- Capable of handling the latest versions of Power over Ethernet
- Conductor sizes for PowerMAX7™ Cat.7 set at 23AWG
- LSZH jacketed 4 pair telecommunications cable
- Successful transmission at 600Mhz 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

Performance Statistics

Frequency Mhz	Insertion Loss dB/100mtrs	NEXT (dB)	Return Loss (dB)
4	3.7	78.0	23.0
10	5.9	78.0	25.0
16	7.4	78.0	25.0
20	8.3	78.0	25.0
31.25	10.4	78.0	23.6
62.5	14.9	75.5	21.5
100	19.0	72.4	20.1
125	21.4	70.9	19.4
200	27.5	67.9	18.0
250	31.0	66.4	17.3
300	34.2	65.2	17.3
600	50.1	60.7	17.3

Meets and **exceeds** values above based on 100 meters (328 ft.) at 20°C as per ISO/IEC 11801 Class F / EN 50173.



Ordering Information

Product Number	Product Name	Reaction To Fire Classification	Color	Length Qty
1105-05007	PowerMAX7 4P Cat.7 S/FTP 23AWG LSZH Dca Cable	Dca,s2,d2,a1	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 +0.05 / - 0.011 mm
Diameter	1.42mm ± 0.05mm
Colors	Blue/White Orange/White Green/White Brown/White
Pair Foil Wrap	Aluminum-mylar tape

Jacket

Material	LSZH
Thickness	0.5 mm ± 0.02mm
Diameter	7.10mm ± 0.3mm
Color	Gray
CPR Reaction To Fire Classification	Dca,s2,d2,a1
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. 9.5 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	Min. 5000 MΩ/Km at 20°C
Mutual Capacitance	Max. 4.6 nF/100m at 1 kHz
Impedance 1-100MHz	100Ω ± 15%
Impedance 100~200MHz	100Ω ± 22%
Impedance 200~600MHz	100Ω ± 25%
Nominal Velocity Of Propagation	74%

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