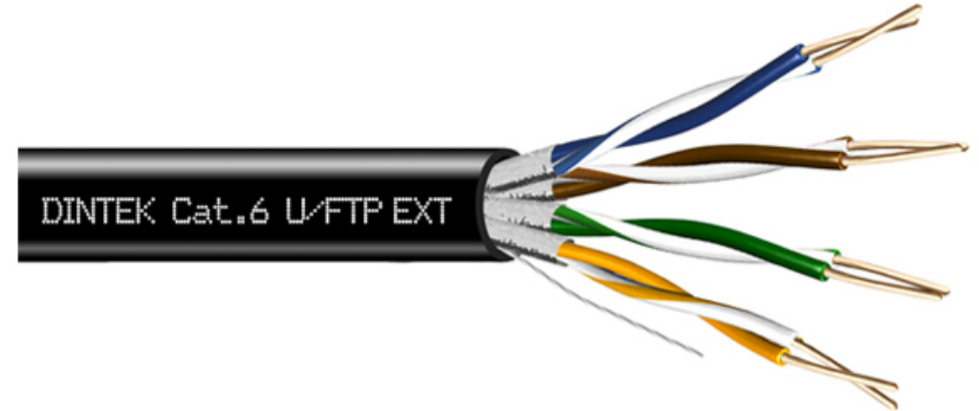


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PowerMAX 4P Cat.6 U/FTP 23AWG PE Cable - Black

Designed for exterior/industrial installation and use, DINTEK's PowerMAX™ shielded Cat.6 / Class E U/FTP PE cable is guaranteed to exceed Cat.6 specifications as set down in ANSI/TIA and ISO/IEC standards.

Our PowerMAX™ solution comprises shielded Cat.6 component compliant keystones, patch cords and unloaded patch panel options, both straight and angled, and when combined with DINTEK's shielded Cat.6 / Class E U/FTP PE 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

- Industrial and exterior link/backbone aerial cabling
- 100BASE-TX Fast Ethernet / 10BASE-TX Ethernet
- 1000BASE-TX Gigabit Ethernet / 1000BASE-T Gigabit Ethernet
- 10GBASE-T 10 Gigabit Ethernet
- 100VG-AnyLAN / Broadband Video / Voice / T1 / ISDN
- 1 Gigabit (250Mhz) Transmission up to length of 100Mtrs

Features

- Capable of handling the latest versions of Power over Ethernet
- Conductor sizes for PowerMAX™ Cat.6 set at 23AWG
- PE jacketed 4 pair telecommunications cable
- Successful transmission at 250Mhz up to a length of 100Mtrs
- EZI-Pull 305Mtr Reel for trouble free installation
- Foil wraps act to prevent crosstalk between twisted pairs

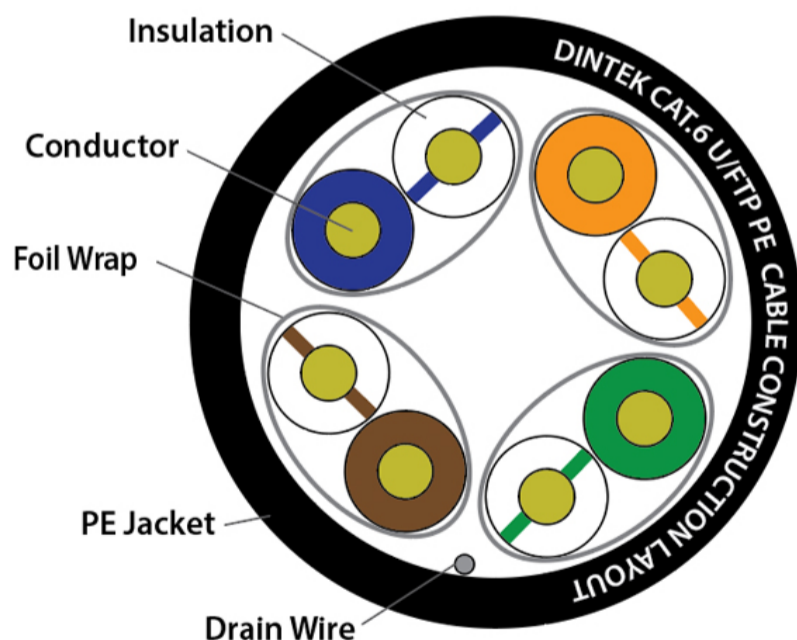
Standards Conformance

- Performance - ANSI/TIA 568.2-D Cat.6 / ISO/IEC 11801
- Structural - EN 13501-6:2014 | IEC 61156-5 | EN 50288-5-1
- PoE capability - IEEE 802.3bt level 3 & 4 (PoE++ & 4PPoE)
- Environmental - Conforms to RoHS and REACH Directives
- Flame retardancy according to EN 60332-1-2
- UV Exposure testing according to ASTM G154 & G155

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	32.3
150	24.9	41.4	30.8
200	29.0	39.9	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.



Ordering Information

Product Number	Product Name	CPR Reaction To Fire	Color	Length Qty
1103-04001	PowerMAX 4P Cat.6 U/FTP 23AWG PE Cable	Fca	Black	305Mtr Reel

Construction

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

Insulation	
Material	HDPE
Thickness	0.414mm
Diameter	1.38mm ± 0.05mm
Colors	Blue/White Orange/White Green/White Brown/White
Pair Foil Wrap	Aluminum-mylar tape with tinned copper drain

Jacket	
Material	Polyethylene
Thickness	0.5 mm
Diameter	7.2mm ± 0.2mm
Color	Black
CPR Reaction To Fire	Fca: according to EN 13501-6
Foil Shield	None
Braided Shield	None

Physical Ranges

Jacket	
Min. Bending Radius	Min. 8 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. 9.38Ω/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 12KV for 2 Seconds
Insulation Resistance Test (500V)	Min. 5000 MΩ/Km at 20°C
Mutual Capacitance	Max. 5.6 nF/100m at 1 kHz
Impedance 1 ~ 100Mhz	100Ω ± 15%
Impedance 100 ~ 250 ΩMhz	100Ω ± 22%

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