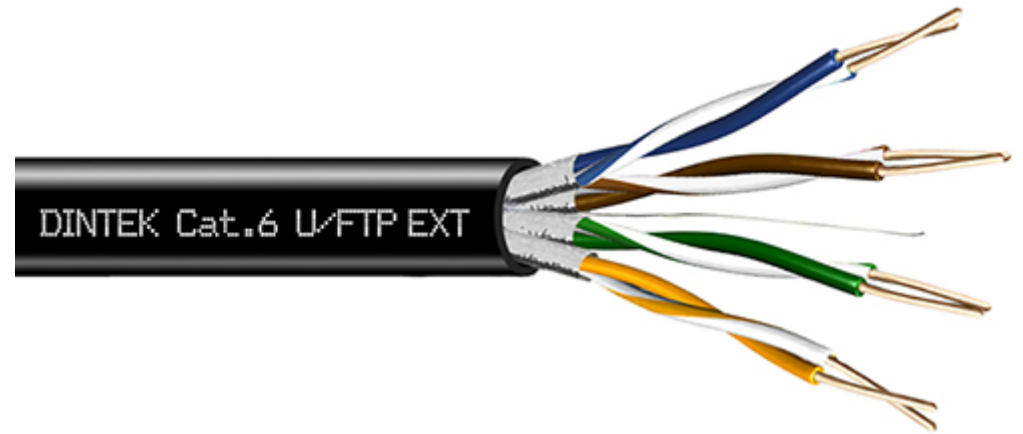


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PowerMAX 4P Cat.6 U/FTP 23AWG PE Cable - Black

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.

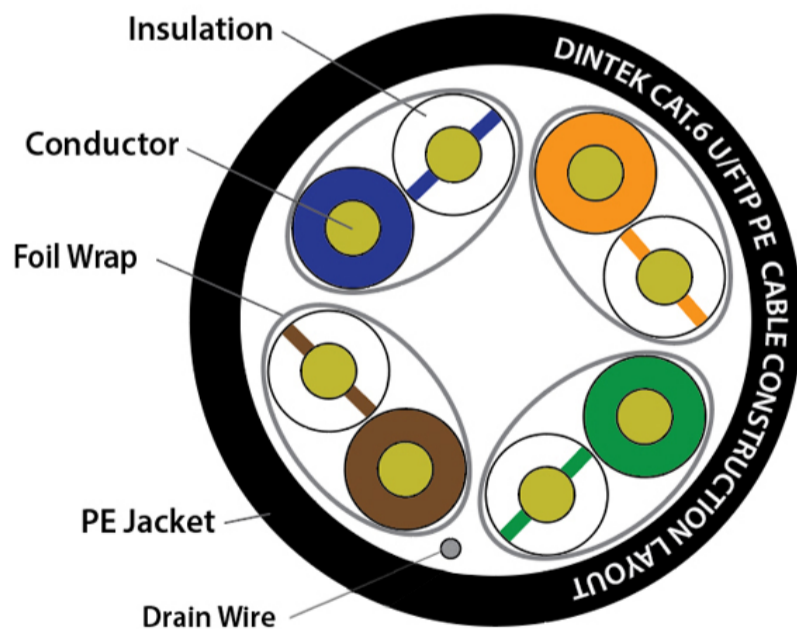


Application

- 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

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
- UV Exposure testing according to ASTM G154 & G155



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

Performance Statistics

Frequency Mhz	Insertion Loss dB/100mtrs	NEXT (dB)	Return Loss (dB)
1	-	74.3	20.0
4	3.8	65.3	23.0
8	5.3	60.8	24.5
10	6.0	59.3	25.0
16	7.6	56.2	25.0
20	8.5	54.8	25.0
25	9.5	53.3	24.3
31.25	19.8	51.9	23.6
62.5	19.8	47.4	21.5
100	19.8	44.3	20.1
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
1103-04011	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
Diameter	1.35mm ± 0.1mm
Colors	Blue/White Orange/White Green/White Brown/White
Pair Foil Wrap	Aluminum-mylar tape with tinned copper drain
Shielding	Drain wire (26AWG)

Jacket	
Material	Polyethylene
Diameter	6.60mm ± 0.3mm
Color	Black
CPR Reaction To Fire	Fca: according to EN 13501-6
Foil Shield	None
Braided Shield	None

Physical Ranges

Jacket	
Min. Bending Radius	Without load 4 x Outer Diameter / Under load 8 x Outer 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. 160 pF/m at 1 kHz
Dielectric Strength of Insulation	1KV for 1min
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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