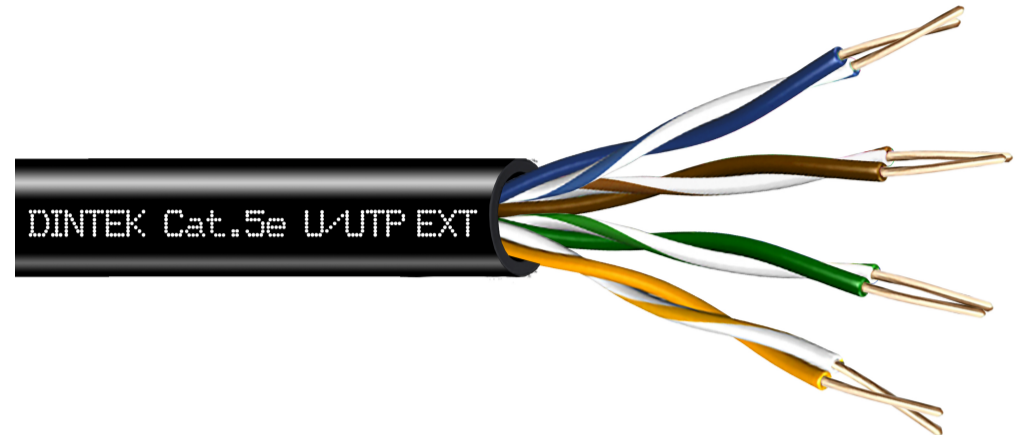


Publish Date: 08.09.2022 | Rev no: 47

## PowerPRO 4P Cat.5e U/UTP 24AWG PE Cable - Black

Designed for exterior/industrial installation and use, DINTEK's PowerPRO™ unshielded Cat.5e / Class D U/UTP PE cable is guaranteed to exceed Cat.5e specifications as set down in ANSI/TIA and ISO/IEC standards.

Our PowerPRO™ solution comprises unshielded Cat.5e component compliant keystones, patch cords and unloaded patch panel options, both straight and angled, and when combined with DINTEK's unshielded Cat.5e / Class D U/UTP 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.

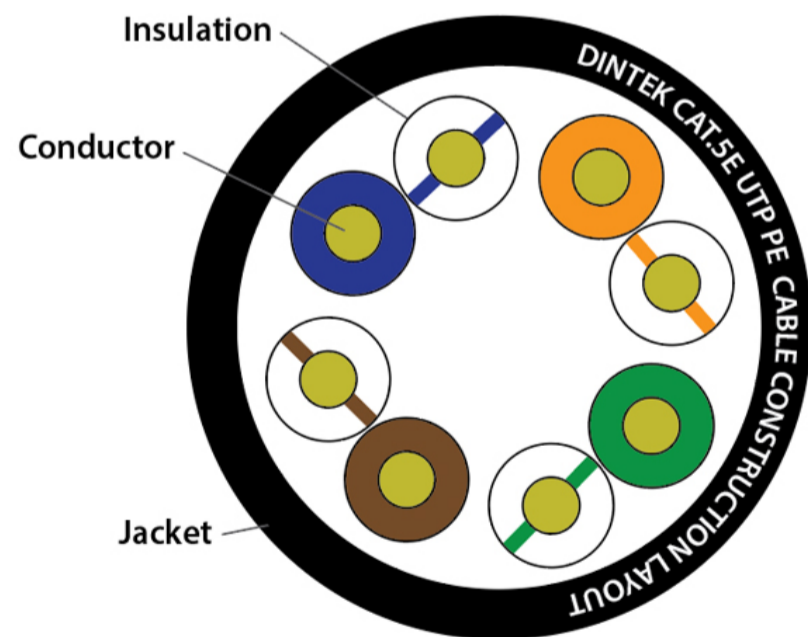


### Application

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

### Standards Conformance

- Performance - ANSI/TIA 568.2-D Cat.5e / ISO/IEC 11801
- Structural - EN 13501-6:2014 | IEC 61156-5 | EN 50288-3-1
- 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 PowerPRO™ Cat.5e set at 24AWG
- PE jacketed 4 pair telecommunications cable
- Successful transmission at 100Mhz up to a length of 100Mtrs
- EZI-Pull 305Mtr Reel for trouble free installation

### Performance Statistics

Frequency Mhz	Insertion Loss dB/100mtrs	NEXT (dB)	Return Loss (dB)
1	2.0	65.3	20.0
4	4.1	56.3	23.0
10	6.5	50.3	25.0
16	8.2	47.2	25.0
20	9.3	45.8	25.0
31.25	11.7	42.9	23.6
62.5	17.0	38.4	21.5
100	22.0	35.3	20.1
125	24.9	33.8	19.4

Meets and **exceeds** values above based on 100 meters (328 ft.) at 20°C as per ANSI/TIA-568-D.2 for Cat.5e / ISO/IEC 11801 Class D / EN 50173.

### Ordering Information

Product Number	Product Name	CPR Reaction To Fire	Color	Length Qty	Qty / Pallet
1101-03038	PowerPRO 4P Cat.5e U/UTP 24AWG PE Cable	Fca	Black	305Mtr Reel	27

## Technical Specifications

### Construction

#### Conductor

<b>Material</b>	Pure Annealed Copper
<b>Wire Size</b>	24AWG
<b>Strand Type</b>	Solid Core
<b>No. Of Pairs</b>	4P

#### Insulation

<b>Material</b>	HDPE
<b>Thickness</b>	0.2mm
<b>Diameter</b>	0.9mm ± 0.05mm
<b>Colors</b>	Blue/White   Orange/White   Green/White   Brown/White
<b>Pair Foil Wrap</b>	None

#### Jacket

<b>Material</b>	Polyethylene
<b>Diameter</b>	5.3mm ± 0.3mm
<b>Color</b>	Black
<b>CPR Reaction To Fire</b>	Fca: according to EN 13501-6
<b>Foil Shield</b>	None
<b>Braided Shield</b>	None

### Physical Ranges

#### Jacket

<b>Min. Bending Radius</b>	Min. 8 x Cable Diameter
<b>Max. Pulling Tension</b>	110N
<b>Installation Temperature</b>	0°C to +50°C
<b>Operating Temperature</b>	-20°C to +75°C

### Electrical

<b>Conductor Resistance</b>	Max. 9.38Ω/100m at 20°C
<b>DC Resistance Unbalance</b>	Max. 2% at 20°C
<b>Pair-to-Ground Capacitance Unbalance</b>	Max. 160 pF/100m at 1 kHz
<b>Dielectric Strength of Insulation</b>	1Kv for 1 min
<b>Insulation Resistance Test (500V)</b>	Min. 5000 MΩ/Km at 20°C
<b>Mutual Capacitance</b>	Max. 5.6 nF/100m at 1 kHz
<b>Impedance 1 ~ 100Mhz</b>	100Ω ± 15%
<b>Nominal Velocity Of Propagation</b>	67%

## DINTEK Electronic Limited

台北市中山區中山北路二段96號 嘉新第二大樓五樓N511  
 N511, 5F, 2nd Bldg, No. 96, Sec. 2, Zhongshan N. Rd. Zhongshan Dist., Taipei City 10449, Taiwan  
 P: +886-2-25223138 E-mail: sales@dintek.com.tw W: www.dintek.com.tw

1101-03038