

## DATA SHEET

## 1101-03004

Publish Date : 16.12.2019 | Rev no: 02

# PowerPRO Cat.5e U/UTP 24AWG PVC 100M

DINTEK PowerPRO™ Category 5E 4 Pair UTP cable, has been designed to support high speed data transmission systems.

This cable is part of the PowerPRO™ System range of products, that have been designed based on the PowerSum principle of crosstalk measurement and testing. We recommend that the full range of PowerPRO products is used in a system to maximize cabling performance, providing extended frequency response and enhanced bandwidth. When combined as an end to end solution, the PowerPRO system, when installed by a certified installer can be warranted for 25yrs.

### Applications

- Voice; T1; ISDN
- 100BASE-T Ethernet (IEEE802.3)
- 155/622Mbps 1.2/2.4 Gbps ATM
- 1000Mbps Gigabit Ethernet
- 550MHz Broadband Video
- Power Over Ethernet

### Standards Conformance

- ANSI/TIA-568-2.D Cat.5e
- ISO/IEC 2nd Edition 11801 Class D
- CENELEC EN 50173-1
- IEC 61156-5, CENELEC EN 50288-3-1 for horizontal cable
- Flame Retardancy is Verified According to IEC 60332-1-2
- IEEE 802.3af-2003 , 802.3at-2009, IEEE 802.3bt

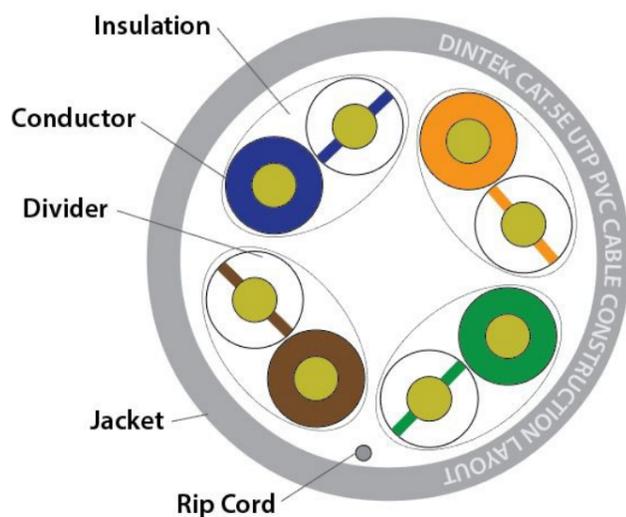
### Independently Verified Certifications

ETL Verified Certificate of Conformance Number: 102661868CRT-001a



### Performance Statistics

Frequency Mhz	Insertion Loss dB / 100mtrs	NEXT (dB)	
1	2.0	65.1	
4	4.1	56.1	
8	5.8	51.8	
10	6.5	50.3	
16	8.2	47.3	
20	9.3	45.8	
25	10.4	44.1	
31.25	11.7	42.9	
62.5	17.0	36.4	
100	22.0	35.3	



### Ordering Information

Product Number	Product Name	Jacket Type	Color	Length Qty
1101-03004	PowerPRO Cat.5e U/UTP 24AWG PVC 100M	PVC	Gray	100m/Box

## Technical Specifications

### Construction

#### Conductor

Material	Solid Copper
Wire Size	24AWG

#### Insulation

Material	HDPE
Thickness	Nominal: 0.22 mm
Colors	Blue/White-Blue   Orange/White-Orange   Green/White-Green   Brown/White-Brown
Unaged Elongation (%)	Min.100%
Unaged Tensile Strength	Min. 1.407 Kg/mm <sup>2</sup>

#### Jacket

Material	PVC
Thickness	0.5 ±0.02 mm
Diameter	5.2 ±0.2 mm
Color	Gray

### Physical Ranges

#### Insulation

Min. Tension Strength	Before Aging	Min. 1.407 Kg/mm <sup>2</sup>
	After Aging	75% aging (100°C X 48hrs)
Min Elongation (%)	Before Aging	Min.100%
	After Aging	50% aging (100°C X 48hrs)

#### Jacket

Min. Tension Strength	Before Aging	Min. 1.683 Kg/mm <sup>2</sup>
	After Aging	75% aging (100°C X 48hrs)
Min Elongation (%)	Before Aging	Min. 300%
	After Aging	50% aging (100°C X 48hrs)
Dielectric Strength	DC 500V / 1min	
Min. Bending Radius	21mm	
Max. Pulling Tension	25 lbs	
Installation Temperature	0°C to +50°C	
Operating Temperature	-20°C to +70°C	

### Electrical

Conductor Resistance	Max. 9.38Ω/100m at 20°C
DC Resistance Unbalance	Max. 5%
Pair-to-Ground Capacitance Unbalance	Max. 160 pF/100m
Dielectric Strength of Insulation	DC 500V / 1min
Insulation Resistance Test	1500MΩ - KM DC 500V (Between wire and ground)
Mutual Capacitance	Max. 5600 pF/100m
Impedance 1~100MHz	100Ω ± 15%

## DINTEK Electronic Limited

中文: 台北市中山區中山北路二段96號 嘉新第二大樓五樓N511 英文  
 N511, 5F, 2nd Bldg, No. 96, Sec. 2, Zhongshan N. Rd., Zhongshan Dist., Taipei City 10449, Taiwan (R.O.C.)  
 P: Office: +886-2-22997898 E-mail: sales@dintek.com.tw W: www.dintek.com.tw

1101-03004