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

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

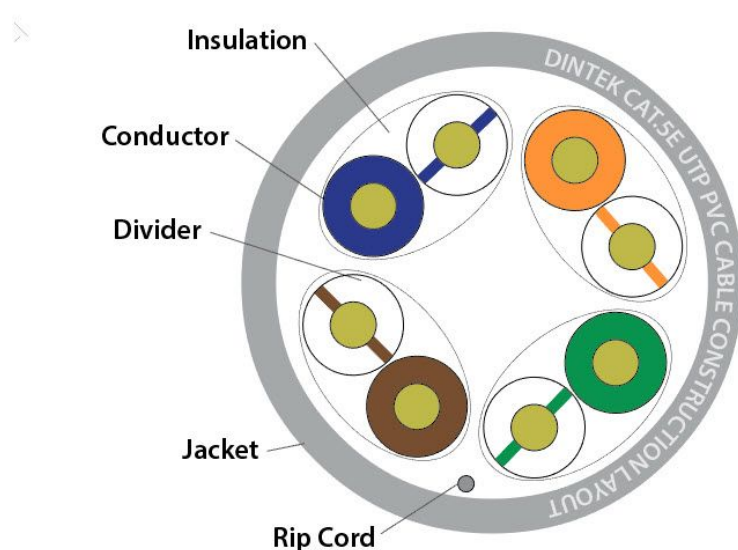
- Voice; T1; ISDN
- 100BASE-T Ethernet (IEEE802.3)
- 155/622Mbps 1.2/2.4 Gbps ATM
- 1000Mbps Gigabit Ethernet
- 550MHz Broadband Video
- Power Over Ethernet

### 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



### Performance Statistics

Frequency Mhz	Insertion Loss dB / 100mtrs	NEXT (dB)	PSNEXT (dB) Min.
1	2.0	65.3	62.3
4	4.1	56.3	53.3
8	5.8	51.8	48.8
10	6.5	50.3	47.3
16	8.2	47.2	44.2
20	9.3	45.8	42.8
25	10.4	44.3	41.3
31.25	11.7	42.9	39.9
62.5	17.0	38.4	35.4
100	22.0	35.3	32.3
125	24.9	33.8	30.8

### Ordering Information

Product Number	Product Name	Jacket Type	Color	Length Qty
1101-03331	PowerPRO Cat.5e U/UTP 24AWG PVC Cable	PVC	Gray	305m/Box

## Technical Specifications

Construction		
<b>Conductor</b>		
Material	Solid Bare Copper	
Wire Size	24AWG	
<b>Insulation</b>		
Material	HDPE	
Thickness	Nominal: 0.182 mm	
Diameter	Nominal: 0.863 mm	
Colors	Blue/White-Blue   Orange/White-Orange   Green/White-Green   Brown/White-Brown	
Unaged Elongation (%)	Min. 300%	
Unaged Tensile Strength	Min. 1.683 Kg/mm <sup>2</sup>	
<b>Jacket</b>		
Material	Flame Retardant PVC	
Thickness	0.52±0.02 mm	
Diameter	5.1±0.1 mm	
Color	Gray	
Physical Ranges		
<b>Insulation</b>		
Min. Tension Strength	Before Aging	Min. 1.683 Kg/mm <sup>2</sup>
	After Aging	
Min Elongation (%)	Before Aging	Min. 300%
	After Aging	
<b>Jacket</b>		
Min. Tension Strength	Before Aging	Min. 1.407 Kg/mm <sup>2</sup>
	After Aging	Min. tensile strength retention:75%
Min Elongation (%)	Before Aging	Min. 100%
	After Aging	Min. elongation retention:50%
Dielectric Strength	DC 500V / 1min. or AC 350V / 1min.	
Min. Bending Radius	25mm	
Max. Pulling Tension	25lb / Mtr (8-10kg)	
Installation Temperature	0°C to +50°C	
Operating Temperature	-20°C to +70°C	
Electrical		
Conductor Resistance	9.38Ω/100m at 20	
DC Resistance Unbalance	Max. 2%	
Pair-to-Ground Capacitance Unbalance	Max. 160 pF/100m	
Dielectric Strength of Insulation	DC 500V / 1min. or AC 350V / 1min.	
Insulation Resistance Test	Min. 5000 MΩ·Km	
Mutual Capacitance	Max. 5600 pF/100m	
Impedance 1 ~ 125Mhz	100Ω±15%	
Spark Test	2000±250 Vac	

### DINTEK Electronic Limited

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