

# Cat 5e 25-Pair UTP PE Duct-Grade Backbone Cable

pro-POWER



RoHS  
Compliant

## Application:

High performance 25 pair backbone cable suitable for outdoor use (in a duct). It can be installed in 100Base-T, Gigabit Ethernet, 155 Mbps ATM, TP-PMD audio, multimedia and telephone networks.

## Construction:

### Conductor:

Solid copper conductor

### Insulation:

PE (Polyethylene)

### Filler:

PE (Polyethylene)

### Separator:

Mylar shield

### Rip Cord:

Nylon

### Sheath:

PE (Polyethylene)

## Characteristics:

### Voltage Rating:

150V

### Temperature Rating:

Fixed : -20°C to +60°C

### Core Identification:

Pair 1:	White/Blue & Blue/White	Pair 10:	Red/Grey & Grey/Red	Pair 19:	Yellow/Brown & Brown/Yellow
Pair 2:	White/Orange & Orange/White	Pair 11:	Black/Blue & Blue/Black	Pair 20:	Yellow/Grey & Grey/Yellow
Pair 3:	White/Green & Green/White	Pair 12:	Black/Orange & Orange/Black	Pair 21:	Purple/Blue & Blue/Purple
Pair 4:	White/Brown & Brown/White	Pair 13:	Black/Green & Green/Black	Pair 22:	Purple/Orange & Orange/Purple
Pair 5:	White/Grey & Grey/White	Pair 14:	Black/Brown & Brown/Black	Pair 23:	Purple/Green & Green/Purple
Pair 6:	Red/Blue & Blue/Red	Pair 15:	Black/Grey & Grey/Black	Pair 24:	Purple/Brown & Brown/Purple
Pair 7:	Red/Orange & Orange/Red	Pair 16:	Yellow/Blue & Blue/Yellow	Pair 25:	Purple/Grey & Grey/Purple
Pair 8:	Red/Green & Green/Red	Pair 17:	Yellow/Orange & Orange/Yellow		
Pair 9:	Red/Brown & Brown/Red	Pair 18:	Yellow/Green & Green/Yellow		

**Sheath Colour:** Black

www.element14.com  
www.farnell.com  
www.newark.com  
www.cpc.co.uk

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## Dimensions:

No. of Cores	Nominal Diameter of Conductor mm	Nominal Thickness of Pair Insulation mm	Nominal Overall Diameter mm	Nominal Weight kg/km
25	0.51	0.91	12	154.4

## Performance Characteristics:

Frequency MHz	Attenuation (-dB/100m) ( $\pm 30\%$ )	Next Worst Pair (dB/100m)	RL (dB/100m)
1	2	52.24	16
4	4.1	45.04	18.4
8	5.8	41.44	19.6
10	6.5	40.24	20
16	8.2	37.84	20
20	9.3	36.64	20
25	10.4	35.44	19.44
31.25	11.7	34.32	18.88
62.5	17	30.72	17.2
100	22	28.24	16.08

## Electrical Characteristics:

Impedance (1 - 100 MHz) $\Omega$	Max. DC Resistance of Conductor at 20°C $\Omega/\text{km}$
100 ( $\pm 15$ )	101.2

## Part Number Table

Description	Reel Length	Part Number
Cat 5e 25-Pair UTP PE Duct-Grade Backbone Cable	50m	PP001172

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