

# Cat 5e 25-Pair UTP LSZH Backbone Cable

pro-POWER

RoHS  
Compliant



## Application:

High performance 25 pair LSZH backbone cable suitable for 100Base-T, Gigabit Ethernet, 155 Mbps ATM, TP-PMD audio, multimedia and telephone networks.

## Construction:

### Conductor:

Class 1 solid copper conductor

### Insulation:

PE (Polyethylene)

### Filler:

PE (Polyethylene) filler core

### Separator:

Mylar tape

### Sheath:

LSZH (Low Smoke Zero Halogen)

## Characteristics:

**Voltage Rating :** 150V

### Temperature Rating:

Fixed : -20°C to +60°C

### Min. Bending Radius:

Full load : 20 × overall diameter

No load : 15 × overall diameter

### 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	<b>Sheath Colour:</b>	Grey

[www.element14.com](http://www.element14.com)  
[www.farnell.com](http://www.farnell.com)  
[www.newark.com](http://www.newark.com)  
[www.cpc.co.uk](http://www.cpc.co.uk)

pro-POWER

# Cat 5e 25-Pair UTP LSZH Backbone Cable

pro-POWER

## Dimensions:

No. of Cores	Nominal Diameter of Conductor mm <sup>2</sup>	Nominal Thickness of Pair Insulation mm	Nominal Overall Diameter mm	Nominal Weight kg/km
25	0.51	0.91	12	194

## Performance Characteristics:

Frequency MHz	Attenuation (-dB/100m) (±30%)	Next Worst Pair (dB/100m)	RL (dB/100m)
1	2	65.3	20
4	4.1	56.3	23
8	5.8	51.8	24.5
10	6.5	50.3	25
16	8.2	47.3	25
20	9.3	45.8	25
25	10.4	44.3	24.3
31.25	11.7	42.9	23.6
62.5	17	38.4	21.5
100	22	35.3	20.1

## Electrical Characteristics:

Impedance (1 - 100 Hz) Ω	Max. DC Resistance of Conductor at 20°C Ω/km
100 (±15)	101.3

## Part Number Table

Description	Reel Length	Part Number
Cat 5e 25-Pair UTP LSZH Backbone Cable	50m	PP001173

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. pro-POWER is the registered trademark of the Group. © Premier Farnell plc 2012.

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

pro-POWER