

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	

Sheath Colour: Grey

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Dimensions:

No. of Cores	Nominal Diameter of Conductor mm ²	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

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