

Cat 5e 25-Pair UTP LSZH Backbone Cable

multicomp PRO



**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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