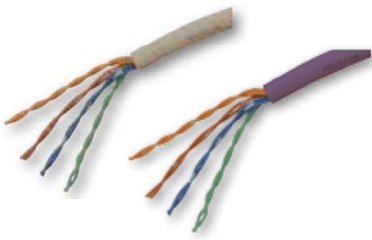


## Cat 6 Data Cable



### Description

This range of Cat 6 Data cable is suitable for modern day installation.

### Features

- 4 Unshielded twisted pairs
- Varying twists to minimise cross talk
- Low smoke zero halogen (LSZH) available

#### Conductor

- Solid bare copper
- 0.55mm  $\varnothing$  nominal
- 23AWG

#### Insulation

- High density polyethylene
- 1.05mm  $\varnothing$  nominal

### Technical Specification

Conductor resistance	< 95.0 $\Omega$ @ 20°C, DC
Insulation resistance	>500M $\Omega$ /m @ 20°C
Impedance	100 $\pm$ 15 $\Omega$
Capacitance @ 1kHz	56pF / km
Dielectric strength	DC 1.5kV, 1 min.
Max.Conductor DC Resistance at 20°C ( $\Omega$ /Km)	<93.8
Rated Temperature(°C)	75°C
Rated Voltage(V)	300V
Velocity ratio	65%

### Standards

- TIA/EIA 568-B
- ISO/IEC 11801
- BS EN 13501-6
- BS EN 60332-1-2,  $E_{ca}$  Rated.
- RoHS

### Range

Cat 6 Data cable, 305m	550
Cat 6 Data cable – LSZH, 305m	551

### Insulation Colours

<b>Pair 1</b>	Blue, white/blue
<b>Pair 2</b>	Orange, white/orange
<b>Pair 3</b>	Green, white/green
<b>Pair 4</b>	Brown, white/brown

### Sheath Details

Material	550 - PVC 551 - LSZH
Thickness	AVG: 0.52mm, MIN: 0.46mm
Outer Dia.	6.1 $\pm$ 0.30mm
Colour	550 -Grey 551 – Purple

**Performance Data**

Frequency (MHz)	RL (dB)	Attenuation (dB/100m)	NEXT	ACR	ELFEXT	PSNEXT	PSELFEXT	Impedance
	min.	max	(dB)	(dB)	(dB)	(dB)	(dB/100m)	(Ohm)
<b>1</b>	20.0	2.02	74.30	72.28	67.80	72.30	64.80	100±15
<b>4</b>	23.0	3.78	65.27	61.49	55.76	63.27	52.76	
<b>8</b>	24.5	5.32	60.75	55.43	49.74	58.75	46.74	
<b>10</b>	25.0	5.95	59.30	53.35	47.80	57.30	44.80	
<b>16</b>	25.0	7.55	56.24	48.68	43.72	54.24	40.72	
<b>20</b>	25.0	8.47	54.78	46.31	41.78	52.78	38.78	
<b>25</b>	24.3	9.51	53.33	43.83	39.84	51.33	36.84	
<b>31.25</b>	23.6	10.67	51.88	41.20	37.90	49.88	34.90	
<b>62.5</b>	21.5	15.38	47.36	31.98	31.88	45.36	28.88	
<b>100</b>	20.1	19.80	44.30	24.50	27.80	42.30	24.80	
<b>250</b>	17.3	32.84	38.33	5.48	19.80	36.30	16.80	