

## CAT 6A U/UTP LAN CABLES

### Category 6A U/UTP 500MHz LAN Cables

Canovate CAT 6A U/UTP LAN Data Cable is an enhanced performance cable used for transmission of high speed data, digital and analogue voice and video RGB signals on LANs. It supports Gigabit Ethernet (10G baseT) standard and operates at bandwidths up to 500 MHz.



### Product Application

- 10 Base T (IEEE 802.3)
- 100 Base T (IEEE 802.3U)
- 100 Vg-Any LAN (IEEE 802.12)
- Token ring (IEEE 805.5)
- TP-PMD (ANSI X3T9.5)
- ATM 155
- 10G BASE-T Gigabit Ethernet

The cable supports gigabit Ethernet protocol for installation in horizontal and backbone applications.

### Mechanical and Environmental Properties

<b>Maximum tensile load</b>	14 kg per simplex cable (installation)
<b>Minimum bend radius</b>	8x outer diameter (installation) 4x outer diameter (operation)
<b>Temperature</b>	0°C to +50°C (installation) -10°C to +60°C (operation)

### Electrical Properties (At 20°C)

Electrical Characteristics@ 20°C	Specifications	Typical Performance
Conductor loop resistance	Max. 19.0 / 100m	14.5/ 100m
Conductor resistance unbalance	Max. 2%	1.5%
Dielectric strength	1.0kV de or 0.7kV ac for 1 min	100% in process test
Insulation resistance	500M .km @ U 100-500 V test voltage	>5 GQkm
Capacitance unbalance to earth	Max. 330 pF/100m	200 pF/100m
Velocity of propagation	<538 nsec/100m@ 500MHz	496 nsec/100m @ 500MHz (NVP for hand held testers = 0.69)
Skew	Max. 45 nsec/100m@ 500MHz	25 nsec/100m@ 500MHz
Characteristic impedance	100.0 +/- 15.0@ 500MHz	100.0 +/- 10.0@ 500MHz
Mutual capacitance	5.6nF/ 100m	5.6nF/ 100m

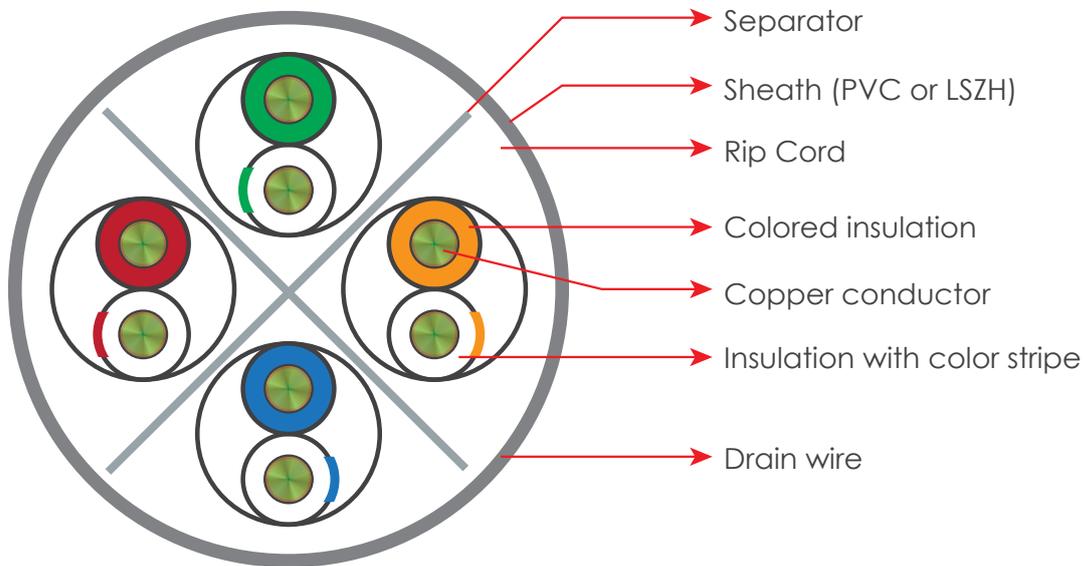
### Order Information

Type
Cat.6A U/UTP Cable LSZH FR (Grey), 305m Reel





## Cable Construction



## Packaging

305 m - Reel in a box

## Manufacturing Process

Canovate controls every stage of the manufacturing process so that quality is built in to every meter of cable, rather than selected out at the end through testing. To ensure the accuracy and precision of the manufacturing process, Canovate routinely

benchmarks against internationally traceable standards from NPL/NIST and follows test methods compliant with EIA/TIA and IEC standards.

## International Standards

- ISO/IEC 11801:2002
- ISO/IEC 61156-5
- EN50173-1:2002
- EN50288-2-1
- ANSI/TIA/EIA568B.2:2002

