

CAT 6 U/UTP LAN CABLES

Category 6 U/UTP 250MHz LAN Cables

Canovate CAT 6 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 (1000 baseT) standard and operates at bandwidths up to 250 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)
- 350 Mbps CDDI
- ATM 155
- 1000 BASE-T Gigabit Ethernet



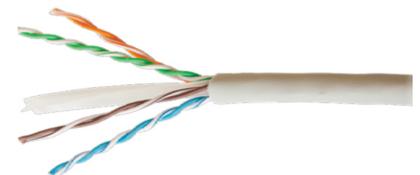
Product Benefits

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



Mechanical and Environmental Properties

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



Electrical Properties (At 20°C)

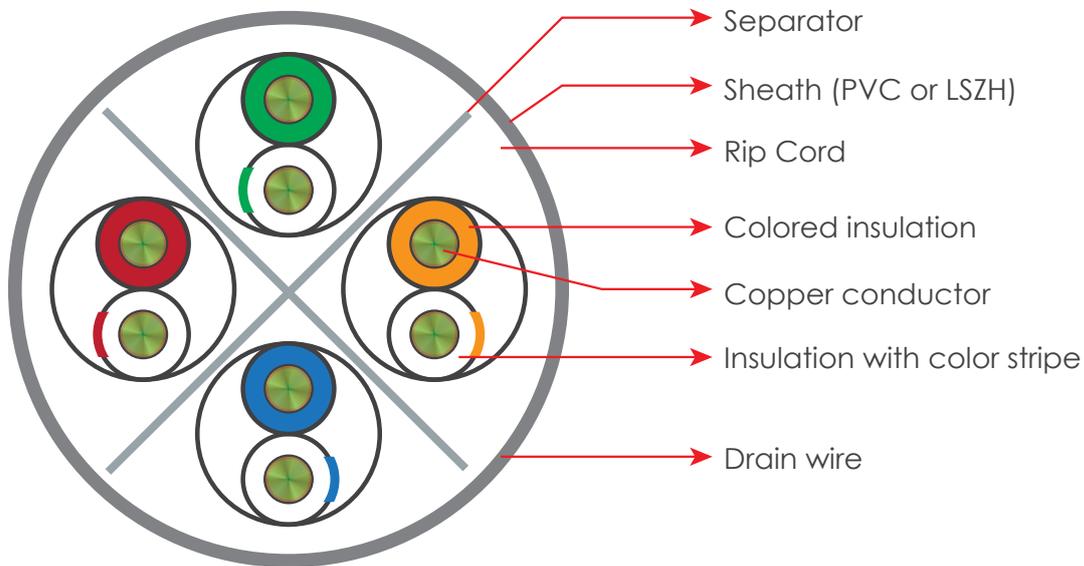
Electrical Characteristics@ 20°C	Specifications	Typical Performance
Conductor loop resistance	Max. 19.0 / 100m	14.5/ 100m
Conductor resistance unbalance	Max. 2%	1.5%
Dielectric strength	1.0kV de or 0.7kV ac for 1 min	100% in process test
Insulation resistance	500M .km @ U 100-500 V test voltage	>5 GQkm
Capacitance unbalance to earth	Max. 330 pF/100m	200 pF/100m
Velocity of propagation	<538 nsec/100m@ 250MHz	496 nsec/100m @ 250MHz (NVP for hand held testers = 0.69)
Skew	Max. 45 nsec/100m@ 250MHz	25 nsec/100m@ 250MHz
Characteristic impedance	100.0 +/- 15.0@ 250MHz	100.0 +/- 10.0@ 250MHz
Mutual capacitance	5.6nF/ 100m	5.6nF/ 100m

Order Information

Type
Cat.6 U/UTP Cable LSZH FR (Grey), 500m Reel



Cable Construction



Packaging

500 m/ 1000 m - Wooden reel

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 calibrates and recertifies process equipment and measurement benches against internationally traceable standards from NPL/ NIST and follows test methods compliant with EIA/TIA and I EC standards.

International Standards

- ISO/IEC 11801:2002
- ISO/IEC 61156-5
- EN 50173-1:2002
- EN 50288-2-1
- ANSI/TIA/EIA 568B.2:2002

