

CAT 6 NETWORKING CABLES



Application

Category 6 cable, also commonly known as network, LAN or Ethernet data cable, is a 4 twisted pair sheathed copper wire cable that can support data transfer rates of up to 1 gigabits (1,000 megabits). This higher bandwidth allows for quick transferral of large files in an office network. In most cases, Cat6 cable is used for connecting a computer to another device like a hub, router or switch in order to allow the sharing of files across a network or for accessing the Internet.

CONSTRUCTION	
Conductor	Solid Bare Electrolytic Grade Copper
Nominal Conductor Diameter	24AWG
Insulation	Polyethylene (HDPE)
Pairing	Twisted into Two core
No. of Pair	4, Each pair Twisted
Color Code:	
Pair #1	Orange-White with Orange
Pair #2	Brown-White with Brown
Pair #3	Blue-White with Blue
Pair #4	Green-White with Green
Inner Sheath material	FRPVC
Colour of Sheath	L-Grey
Approximate OD	-
Rip Cord	Yes
Cross Filler	HDPE
Sheath	PVC Compound with Anti Rodent & Termite Properties
Colour	Black
Temperature Rating	-20to +70°c
Overall Dia of cable	10.50 mm ±1mm
Sequential Marking	At Every Meter

PHYSICAL CHARACTERISTICS	
Installation Temperature	0 to + 50°C
Storage Temperature	-20 to +75°C
Operating Temperature	-20 to +60°C

ELECTRICAL PARAMETER	
CONDUCTOR RESISTANCE (DC)	
RESISTANCE UNBALANCE	5% Max
MUTUAL CAPACITANCE	5.6nf/100mtr Max
NVP	69%
IMPEDANCE	100±15%
Worst Cable Skew	45ns/100mtr.
Capacitance unbalance (Max)	330pf/100m
Propagation delay Skew	536ns/100m



** On special request Cat-6 Armoured Cable can be manufactured by providing GI wire armoured of 0.90mm