

PART CODE:- QCTN-C6 UTP

CAT 6 UTP CABLE

Q-Connect Cat-6 UTP Data Cables are the best-twisted cables for transmitting data over a local area network (LAN). These cables exceed the performance specified by TIA/EIA-568C2. Supports all the applications designed to operate over category 6 or lower rate system. Solid annealed bare copper conductors, PE cross separator, with PVC jacketing. Compliant with RoHS standards . Sequential measurement marking on the jacket. Improve crosstalk performance central spline separate pairs and maintains a stable pair position.

TECHNICAL SPECIFICATION			
CONSTRUCTION		ELECTRICAL PARAMETER	
Conductor	23 AWG Solid Annealed Bare Copper Conductor	Conductor Resistance at 20°C	93.80Ω/Km (Maximum)
Conductor Diameter	0.485±0.015mm	Resistance Unbalance	5% (Maximum)
Insulation	0.20mm & 1.00±0.10mm	Insulation Resistance	>500MΩ/Km AT 500 VDC
Insulation Diameter	1.00 ± 0.10mm	Dielectric Strength	0.700KV AC for 1 Minute
Insulation Thickness	0.20mm	Spark Test	1.0 KV AC for 0.15Seconds
Pairs LAY-UP	All of the 4Pairs twisted together	Mutual Capacitance	<5.6 nF/100M
RIP CORD	Yes	NVP	69%
Color of Sheath	Grey or As per customer requirement	Impedance	100 ± 15%
Outer Sheath Material	PVC JACKETING	Capacitance Unbalance Pair/Ground	330PF/100M



MECHANICAL PROPERTIES				
Insulation & Sheath	Unaged	Tensile Strength	13.79N/mm ²	12.50N/mm ²
		Elongation	300% (Minimum)	150% (Minimum)
	Aged	Tensile Strength	± 70% Maximum (113±2°C X 168 hrs.)	± 20% Maximum (80±2°C X 48 hrs.)
		Elongation	± 60% Maximum (113±2°C X 168 hrs.)	± 20% Maximum (80±2°C X 48 hrs.)
Hot Deformation (Jacketing)			50% Maximum (80±2°C X 4 hrs.)	
Heat Shock Test (Jacketing)			150±2°C for 1 h (No Cracks)	
Bending Test (Jacketing)			-20±2°C for 2-3hrs (No Cracks)	
Temperature Rating			-10°C to 45°C 30V	
Flammability Test				
Time Period of Burning			60 Seconds (Maximum)	
Unaffected Portion			50mm (Minimum)-from the lower edge of the top clamp	
Q-Connect CAT6 23 AWGX4 Pair UTP Cable as per TIA/EIA-5682.2 & IEC/ISO 11801				

Color Code	
Pair No	Color
Pair 1-2:	Blue and White-Blue
Pair 3-6:	Orange and White-Orange
Pair 4-5:	Green and White- Green
Pair 7-8:	Brown and White-Brown

