

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 <sup>2</sup>             | 12.50N/mm <sup>2</sup>           |
|                                                                              |        | 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   |