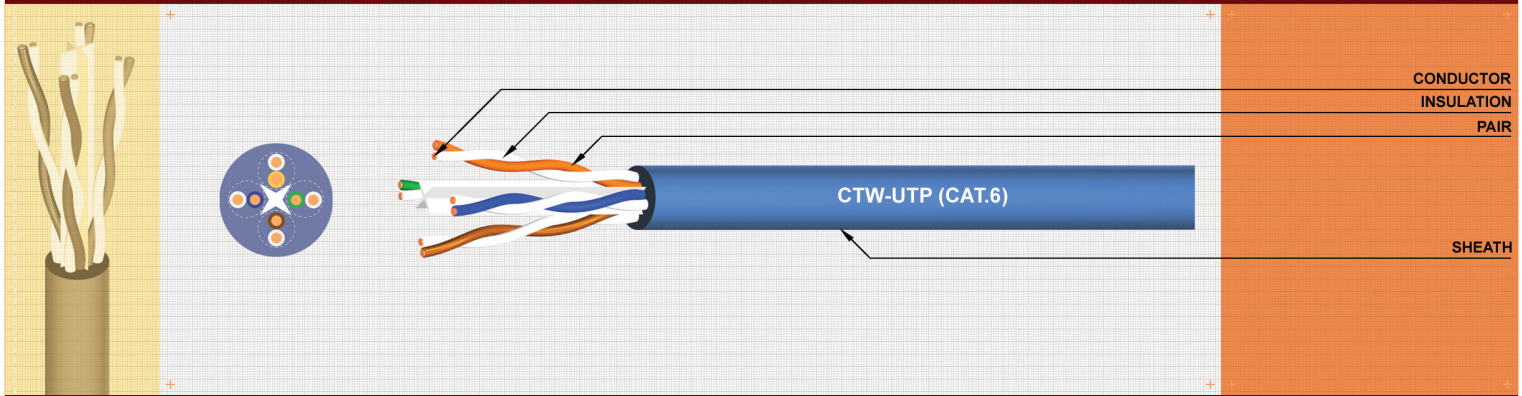




CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : CTW - UTP (CAT.6)
UNSHIELDED TWISTED PAIR CABLE, UTP CATEGORY 6



| CONSTRUCTION | | ELECTRICAL PROPERTIES | | STANDARD |
|--------------|--|-----------------------------|--|--|
| Conductor | 23 AWG Solid copper | Characteristic Impedance | 100 ohms +/- 15 ohms 1 - 100 MHz, 100-200 MHz +/- 20 ohms, 200-250 MHz +/- 25 ohms | This cable meets or exceeds ANSI/TIA/EIA-568-B. Category 6, CENELEC EN50173, ICEA S-90-661 and ISO/IEC 11801 |
| Insulation | Polyethylene, diameter 1.22 mm max. | Conductor Resistance | 6.7 ohm/100m | |
| Pair | 2 Insulated conductors twisted together Lay varied to minimise crosstalk 4 Pair twist together | Mutual Capacitance | 5.6 nF/100m max. at 1 kHz. | |
| Sheath | PVC or LSOH with making | Delay Skew | ≤ 45 ns/100m | |
| OD diameter | 6.6mm nominal | Nom. Velocity of Prop., NVP | 62% | APPLICATION - Gigabit Ethernet - 155 Mb/s ATM - Fast Ethernet |

PACKAGING
Available in pull boxes (305m) or non-returnable reel of longer lengths

Electrical Characteristics Technical changes without notice

| Frequency MHz | Attenuation dB/100m max Spec. | Pair to Pair | | | | Power Sum | | |
|---------------|-------------------------------|------------------------|--------------------------|-----------------------|--------------------------|------------------------|--------------------------|-----------------------|
| | | NEXT dB/100m min Spec. | ELFEXT dB/100m min Spec. | ACR dB/100m min Spec. | Return Loss dB min Spec. | NEXT dB/100m min Spec. | ELFEXT dB/100m min Spec. | ACR dB/100m min Spec. |
| 1.0 | 2.0 | 74.3 | 67.8 | 72.3 | 20.0 | 72.3 | 64.8 | 70.3 |
| 4.0 | 3.8 | 65.3 | 55.8 | 61.5 | 23.0 | 63.3 | 52.8 | 59.5 |
| 8.0 | 5.3 | 60.8 | 49.7 | 55.4 | 24.5 | 58.8 | 46.7 | 53.4 |
| 10.0 | 6.0 | 59.3 | 47.8 | 53.3 | 25.0 | 57.3 | 44.8 | 51.3 |
| 16.0 | 7.6 | 56.2 | 43.7 | 48.7 | 25.0 | 54.2 | 40.7 | 46.7 |
| 20.0 | 8.5 | 54.8 | 41.8 | 46.3 | 25.0 | 52.8 | 38.8 | 44.3 |
| 25.0 | 9.5 | 53.3 | 39.8 | 43.8 | 24.3 | 51.3 | 36.8 | 41.8 |
| 31.25 | 10.7 | 51.9 | 37.9 | 41.2 | 23.0 | 49.9 | 34.9 | 39.2 |
| 62.5 | 15.4 | 47.4 | 31.9 | 32.0 | 21.5 | 45.4 | 28.9 | 30.0 |
| 100.0 | 19.8 | 44.3 | 27.8 | 24.5 | 20.1 | 42.3 | 24.8 | 22.5 |
| 155.0 | 25.2 | 41.4 | 24.0 | 16.2 | 18.8 | 39.4 | 21.0 | 14.2 |
| 200.0 | 29.0 | 39.8 | 21.8 | 10.7 | 18.0 | 37.8 | 18.8 | 8.7 |
| 250.0 | 32.8 | 38.3 | 19.8 | 5.4 | 17.3 | 36.3 | 16.8 | 3.4 |

Product Code : T31050004

| pair Colour Coding | |
|--------------------|---------------------|
| Pair 1 | Blue/White-Blue |
| Pair 2 | Orange/White-Orange |
| Pair 3 | Green/White-Green |
| Pair 4 | Brown/White-Brown |