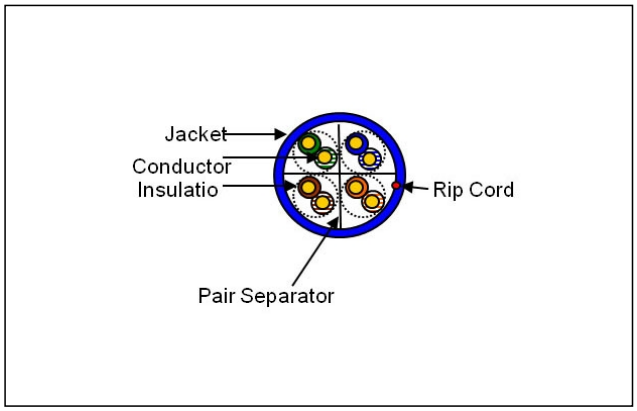
Issue Date: 06/01/2006
Revision #: 4

# Part No.: 6B234UTPENH

# Category 6  650MHz Plenum

ETL listed for guaranteed performance
Made in the USA




## Applications

Supports all Gigabit Ethernet/1000BASE-T/.IEEE 802.32ab, ATM up to 155 Mbps, 100 Mbps Fast Ethernet 100BASE-T/IEEE 802.3, ANSI.X3.263 FDDI TP-PMD, Ethernet 10BASE-T/IEEE 802.5, TI/EI, xDSL, ISDN, 550 MHz Broadband Video and standards under development such as ATM at 622 Mbps, 1.2, 2.4 and 4.8 Gbps

## Construction Details

No. 23 AWG solid bare copper conductor insulated with FEP.
Two colored mated insulated conductors twisted together to form a pair and four pairs assembled to form a core. The core is jacketed with a low smoke flame retardant PVC.
Surface Print: ETL VERIFIED CAT6 TO TIA-568C.2...3122598
CMP 23AWG 4UTP C(ETL)US ENHANCED FT6 MADE IN USA
Sequential Footage Marking

## Electricals

Suggested Working Voltage: 300 Volts, rms.
Mutual Capacitance: 14 pF/ft nominal
Capacitance Unbalance: 330 pF/100m maximum
Velocity of Propagation: 72%
Max. Conductor D.C.R.: 28.6 ohm/1000 feet
Max. DCR Unbalance: 5%
Max. Delay Skew: 45.0 ns/100m
Characteristic Impedance: from 0.772 - 100 MHz 100 ± 15%
from 100 - 250 MHz 100 ± 22%
from 251 - 550 MHz 100 ± 32%

## Color Code:

| Pair | Color Code |
|---|---|
| 1 | Blue with White |
| 2 | Orange with White |
| 3 | Green with White |
| 4 | Brown with White |

## Technical Details

Temperature Rating
Installation: 0°C to 50°C
Operation: -20°C to 60°C
Nominal Diameter: 0.230 in.
Nominal Cable Weight: 40 lbs/1,000 feet

## Standards

ANSI/TIA/EIA 568C.2 Category 6
National Electric Code -  Article 800
UL Subject 444

## Codes & Listings

CMP rating FT6
ETL Electrically Verified to ANSI/TIA/EIA 568C.2 Category 6
C(ETL)US CMP

## Preparation for Shipment

The cable shall be packaged to preclude the inducement of damage due to handling and transportation, and shall be in accordance with the best commercial practices available. Shipping containers shall be constructed as to eliminate any possible damage to the cables due to shipment.

### Warranty Info

All warranty information can be viewed at www.remee.com. This product is RoHS compliant and is directive 2002/95/EC. It is the sole responsibility of the user to have the most current specification. Specifications are subject to change without notice.

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Remee
wire and cable
engineered with you in mind

## Electrical Characteristics:

| Frequency | Return Loss | Attenuation | NEXT | PS-NEXT | ELFEXT | PS-ELFEXT | ACR | PS-ACR |
|---|---|---|---|---|---|---|---|---|
| | dB | dB(100m) | dB | dB | dB | dB | dB | dB |
| MHz | Minimum | Maximum | Minimum | Minimum | Minimum | Minimum | Minimum | Minimum |
| 1 | 20.0 | 2.0 | 78.3 | 76.3 | 70.00 | 68.0 | 76.3 | 74.3 |
| 4 | 24.2 | 3.8 | 69.3 | 67.3 | 58.0 | 56.0 | 65.5 | 63.5 |
| 10 | 27.0 | 5.9 | 63.3 | 61.3 | 50.00 | 48.0 | 57.4 | 55.4 |
| 16 | 27.0 | 7.5 | 60.2 | 58.2 | 45.9 | 43.9 | 52.7 | 50.7 |
| 20 | 27.0 | 8.4 | 58.8 | 58.8 | 44.0 | 42.0 | 50.4 | 48.4 |
| 31.25 | 25.9 | 10.6 | 55.9 | 53.9 | 40.1 | 38.1 | 45.3 | 43.3 |
| 62.5 | 24.2 | 15.3 | 51.4 | 49.4 | 34.1 | 32.1 | 36.1 | 34.1 |
| 100 | 23.1 | 19.7 | 48.3 | 46.3 | 30.0 | 28.0 | 28.6 | 26.6 |
| 200 | 21.4 | 28.8 | 43.8 | 41.8 | 24.0 | 22.0 | 15.0 | 13.0 |
| 250 | 20.9 | 32.6 | 42.3 | 40.3 | 22.0 | 20.0 | 8.7 | 7.7 |
| 300 | 20.4 | 36.2 | 41.1 | 39.1 | 20.5 | 18.5 | 4.9 | 2.9 |
| 350 | 20.1 | 39.5 | 40.1 | 38.1 | 19.1 | 17.1 | 0.6 | |
| 400 | 19.7 | 42.7 | 39.3 | 37.3 | 18.0 | 16.0 | | |
| 500 | 19.2 | 48.6 | 37.8 | 35.8 | 16.0 | 14.0 | | |
| 550 | 19.0 | 51.5 | 37.2 | 35.2 | | | | |
| 600 | 18.8 | 54.2 | 36.6 | 34.6 | | | | |
| 650 | 18.6 | 56.8 | 36.1 | 34.1 | | | | |

*Values above 250 MHz are for engineering information only

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