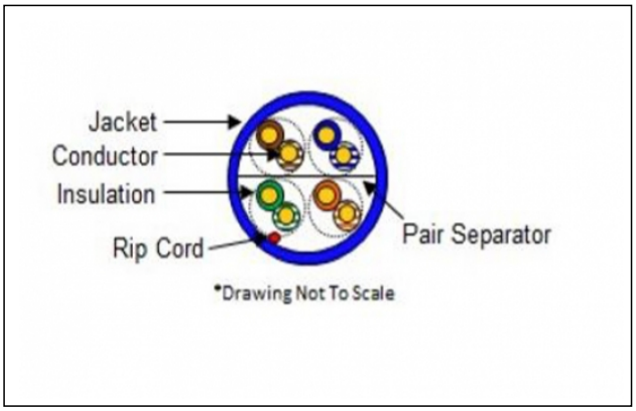
Issue Date: 06/01/2016
Revision #: 4

Part No.: 6BNS

# Category 6  550 MHz Plenum

ETL listed for guaranteed performance
Made in the USA




## Applications

Supports all category 6 applications including Ethernet 100BASE -TX, 100BASE-VG and 155 ATM. Particularly suited for high bandwidth applications with anticipated data rates to 3.2 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 with a tape separator 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 23 AWG 4UTP 550 MHZ C(ETL)US MADE IN USA
Sequential Footage Marking

## Electricals

Mutual Capacitance: 14 pF/ft nominal
Capacitance Unbalance: 330 pF/ft maximum
Velocity of Propagation: 72%
Max. Conductor D.C.R.: 28.6 ohm/1,000 feet
Max. DCR Unbalance: 5%
Max. Delay Skew: 45.0 ns/100m
Characteristic Impedance:
from 0.772 - 100 MHz 100 ± 15%
from 101 - 250 MHz 100 ± 22%

## 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 -10°C to 75°C
Nominal Diameter 0.200 in.
Nominal cable weight: 29 lb/1000 feet

## Standards

ANSI/TIA/EIA 568C.2 Category 6
UL Subject 444

## Codes & Listings

UL 910: 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 |
|---|---|---|---|---|---|---|---|---|
| MHz | dB | dB(100m) | dB | dB | dB | dB | dB | dB |
| | Minimum | Maximum | Minimum | Minimum | Minimum | Minimum | Minimum | Minimum |
| 1 | 20.0 | 2.0 | 80.3 | 78.3 | 73.8 | 70.8 | 78.3 | 76.3 |
| 4 | 23.0 | 3.8 | 71.3 | 69.3 | 61.8 | 58.8 | 67.5 | 65.5 |
| 10 | 25.0 | 6.0 | 65.3 | 63.3 | 53.8 | 50.8 | 59.3 | 57.3 |
| 16 | 25.0 | 7.6 | 62.2 | 60.2 | 49.7 | 46.7 | 54.6 | 52.6 |
| 20 | 25.0 | 8.5 | 60.8 | 58.8 | 47.8 | 44.8 | 52.3 | 50.3 |
| 31.25 | 23.6 | 10.7 | 57.9 | 55.9 | 43.9 | 40.9 | 47.2 | 45.2 |
| 62.5 | 21.5 | 15.4 | 53.4 | 51.4 | 37.9 | 34.9 | 38.0 | 36.0 |
| 100 | 20.1 | 19.8 | 50.3 | 48.3 | 33.8 | 30.8 | 30.5 | 28.5 |
| 200 | 18.0 | 29.0 | 45.8 | 43.8 | 27.8 | 24.8 | 16.8 | 14.9 |
| 250 | 17.3 | 32.8 | 44.3 | 42.3 | 25.8 | 22.8 | 11.5 | 9.5 |
| 300 | 16.8 | 36.4 | 43.1 | 41.1 | 24.3 | 21.3 | - - - | - - - |
| 350 | 16.3 | 39.8 | 42.1 | 40.1 | 22.9 | 19.9 | - - - | - - - |
| 400 | 15.9 | 43.0 | 41.3 | 39.3 | 21.8 | 18.8 | - - - | - - - |
| 500 | 14.8 | 49.5 | 40.2 | 38.2 | 20.0 | 17.0 | - - - | - - - |
| 550 | 14.4 | 53.1 | 39.5 | 37.5 | 18.9 | 15.9 | - - - | - - - |

*Values above 250 MHz are for engineering information only

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