

Part No.: 6B234STP

ETL verified 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 such as 622 ATM, Wideband, Ethernet 1000BASE-T and emerging applications with anticipated data rates to 3.2 Gbps.

### Construction Details:

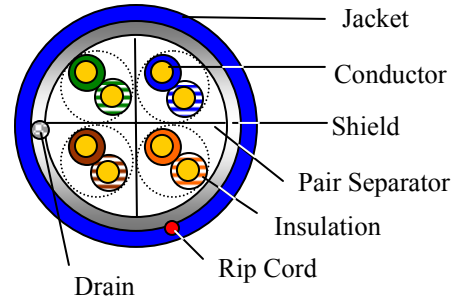
No. 23 AWG copper conductor insulated with FEP. Two colored mated insulated conductors twisted together to form a pair and four pairs assembled around a pair separator to form a core. The core is overall shielded and jacketed with a low smoke flame retardant PVC.

### Color Code:

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

### Electrical Parameters:

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| Mutual Capacitance:       | 14 pF/ft nominal                                               |
| Capacitance Unbalance:    | 330 pF/ft maximum                                              |
| Velocity of Propagation:  | 72%                                                            |
| Max. Conductor D.C.R.:    | 28.6 ohm/1000 feet                                             |
| Max. DCR Unbalance:       | 5%                                                             |
| Max. Delay Skew:          | 45.0ns/100m                                                    |
| Characteristic Impedance: | from 0.772 – 100 MHz 100 ± 15%<br>from 101 – 250 MHz 100 ± 22% |



### Technical Details

|                       |                 |
|-----------------------|-----------------|
| Temperature Rating    |                 |
| Installation          | -0°C to 50°C    |
| Operation             | -2°C to 60°C    |
| Nominal Diameter      | 0.305 in.       |
| Nominal cable weight: | 49 lb/1000 feet |

### Standards

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

### Codes & Listings

- C(ETL)US CMP, FT6
- NFPA 262 Plenum Flame Test, FT6
- ETL Electrically Verified to ANSI/TIA/EIA 568C.2 Category 6



Issue Date: 11/10  
Revision: 3

This product is RoHS compliant to directive 2002/95/EC .

PO Box 488 468 RT17A Florida, NY 10921  
Customer Service: 800-431-3864 Fax: 845-651-4160 Website: www.remee.com

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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**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     |

**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.



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