

GenSPEED 5000 Category 5e F/UTP 4 Pair / 24AWG

DESCRIPTION:

Category 5e Screened cable per ANSI/TIA-568.2-D requirements, used in hostile electromagnetic environments to protect against the affects of EMI/RFI.

APPLICATIONS:

- IEEE 802.3 : 1000 BASE-T, 100BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video

COMPLIANCES:

ANSI/TIA 568.2-D
 NEC/CEC Type CMP (NFPA 262) for Plenum
 NEC/CEC Type CMR (UL 1666) for Non-Plenum
 UL 444
 RoHS Compliant Directive 2011/65/EU
 ANSI/TIA 862 (Building Automation)
 ICEA S-90-661 (Category 5e)
 ISO/IEC 11801 Ed. 2.0 (Class D)

CONSTRUCTION:

Conductor 24 AWG solid bare annealed copper
Insulation Plenum: Fluoropolymer
 Riser: Polyolefin
Color Code 4 pair telephony color code
Core Tape Polyester tape
Drain Wire 24 AWG solid tinned copper
Shield Aluminum/mylar tape over the core, with Aluminum facing inside.
Jacket Flame retardant PVC

Temperature Installation: 0° to + 60° C
Rating Operating: -20° to + 75° C

PACKAGING:

- 1000 feet wood reels (RL)

Ordering

| P/N | Type | Color | OD | Weight |
|----------|------|-------|--------|------------|
| 2131673E | CMP | Gray | 0.225" | 32 lbs/kft |
| 2131611E | CMP | Blue | 0.225" | 32 lbs/kft |
| 2133495E | CMR | Gray | 0.250" | 36 lbs/kft |
| 2133496E | CMR | Blue | 0.250" | 36 lbs/kft |

ELECTRICAL CHARACTERISTICS

DC Resistance (max)

OHMS/100m(328 ft) @ 20°C 9.38

Mutual Capacitance (nom)

nF/100m(328 ft) @ 1kHz 4.59

Nominal Velocity of Propagation (NVP)

% Speed of Light CMP: 72
 CMR: 70

Characteristic Impedance **OHMS**
 Frequency 1 – 100 MHz 100 ± 15

| Frequency | Atten (Max) | NEXT (min) | PS-NEXT (min) | ACRF (min) | PS-ACRF (min) | Return Loss (Min) |
|-----------|-------------|------------|---------------|------------|---------------|-------------------|
| 1 MHz | 2.0 | 65.3 | 62.3 | 63.8 | 60.8 | 20.0 |
| 4 MHz | 4.1 | 56.3 | 53.3 | 51.7 | 48.7 | 23.0 |
| 10 MHz | 6.5 | 50.3 | 47.3 | 43.8 | 40.8 | 25.0 |
| 16 MHz | 8.2 | 47.2 | 44.4 | 39.7 | 36.7 | 25.0 |
| 20 MHz | 9.3 | 45.8 | 42.8 | 37.7 | 34.7 | 25.0 |
| 25 MHz | 10.4 | 44.3 | 41.3 | 35.8 | 32.8 | 24.3 |
| 31.25 MHz | 11.7 | 42.9 | 39.9 | 33.9 | 30.9 | 23.6 |
| 62.5 MHz | 17.0 | 38.4 | 35.4 | 27.8 | 24.8 | 21.5 |
| 100 MHz | 22.0 | 35.3 | 32.3 | 23.8 | 20.8 | 20.1 |

Propagation Delay

(Max) ns @ 100 MHz 538

Delay Skew (Max) ns 45

