

**4 PAIR 23 AWG
TYPE CMP
CATEGORY 6 1000' BOX**



Standard: UL 444,910 ISO/IEC 11801 TIA/EIA-568-C.2 CAT 6

Application: Ultra high performance LAN cable suitable for perfect audio data and video of transfer for horizontal network.

1.0 SPECIFICATIONS:

1.1 CONDUCTOR:

- 1.1.1 Material: Bare Copper
- 1.1.2 Size: 23 AWG
- 1.1.3 Construction: Solid

1.2 INSULATION:

- 1.2.1 Material: FEP
- 1.2.2 Wall Thickness: 0.006"
O.D.: 0.037"
- 1.2.3 Color Code: Pair #1, Blue x
White/Blue Stripe, Pair #2,
Orange x White/Orange Stripe,
Pair #3, Green x White/Green
Stripe, Pair #4, Brown x White/
Brown Stripe

ASSEMBLY:

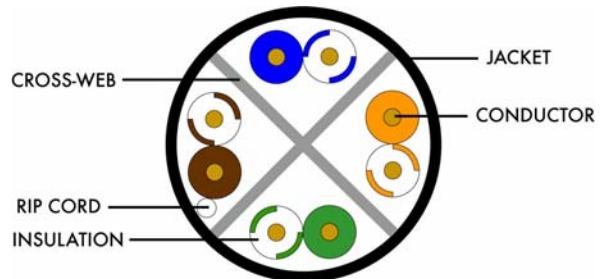
- 1.3 Pair Twisted (2 Cores Twisted)
- 1.3.1 Filler (Slot) FRPE Isolator
Separator
Assembly (4 Pair)

1.4 JACKET:

- 1.4.1 Material: PVC
- 1.4.2 Wall Thickness: 0.020"
- 1.4.3 O.D.: 0.204"
- 1.4.4 Marking: PAIGE 9P234C62B1
E191596 (Factory mill identification) 4PR
23AWG CMP C(UL)US ETL VERIFIED
TO ANSI/TIA-568-C.2 CATEGORY 6
RoHS 11801 (Ascending / Descending
footage marking every 2ft)
- 1.4.5 Color: White
- 1.4.7 Ripcord under jacket

1.5 TEMPERATURE / VOLTAGE:

- 1.5.1 75°C / 300V



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| | | | |
|---|--------|------------------|---|
| CONDUCTOR RESISTANCE | | | 93.8 OHM/Km/20°C MAX. |
| MUTUAL CAPACITANCE | | | 56 pF/M MAX. |
| DIELECTRIC STRENGTH | | | AC 1.5 KV/MIN. |
| SPARK TEST | | | 2.5 KV |
| INSULATION | UNAGED | TENSILE STRENGTH | 2500 PSI MIN. (1.76 Kg/m m ²) |
| | | ELONGATION | 200% MIN. |
| | AGED | TENSILE STRENGTH | UNAGED MIN. 75%(232°C ×168HRS) |
| | | ELONGATION | UNAGED MIN. 75%(232°C ×168HRS) |
| JACKETED | UNAGED | TENSILE STRENGTH | 2000 PSI MIN.(1.41 Kg/m m ²) |
| | | ELONGATION | 100% MIN. |
| | AGED | TENSILE STRENGTH | UNAGED MIN. 85%(100°C ×240HRS) |
| | | ELONGATION | UNAGED MIN. 50%(100°C ×240HRS) |
| INSULATION SHRINKBACK | | | 150m/m, 121°C ±1°C × 1HR < 9.5m/m |
| COLD BEND TEST | | | -20°C ×4HRS NO.CRACK |
| FLAME RETARDANT TEST | | | CMP |
| AC LEAKAGE CURRENT THROUGH OVERALL JACKET | | | AC 1500V < 10 mA |
| DC RESISTANCE UNBALANCE | | | 5% MAX. |
| PAIR-TO-GROUND CAPACITANCE UNBALANCE | | | 3300 pF/Km MAX. |
| CHARACTERISTIC IMPEDANCE | | | 1 ~ 550 MHz 100±15 OHMS |
| STRUCTURAL RETURN LOSS | | | 550 MHz 8.6dB MIN. |
| PROPAGATION DELAY | | | 550MHz 536nS/100m MAX. |
| DELAY SKEW | | | 1 ~ 550 MHz 30nS/100m MAX. |

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ELECTRICAL PERFORMANCE

| ITEM(dB) | ATT | NEXT | ACR | PS. NEXT | PS. ACR | ELFEXT | PS. ELFEXT | R.L. |
|--------------------|-------------------|--------------|--------------|--------------|--------------|-------------------|-------------------|--------------|
| Frequency (MHz) | MAX. (dB/100m) | MIN. (dB) | MIN. (dB) | MIN. (dB) | MIN. (dB) | MIN. (dB/100m) | MIN. (dB/100m) | MIN. (dB) |
| 1 | 2.0 | 75.3 | 73.3 | 73.3 | 71.3 | 67.8 | 64.8 | 20.0 |
| 4 | 3.8 | 66.3 | 62.5 | 64.3 | 60.5 | 55.7 | 52.7 | 23.0 |
| 8 | 5.4 | 61.8 | 56.4 | 59.8 | 54.4 | 49.7 | 46.7 | 24.5 |
| 10 | 6.0 | 60.3 | 54.3 | 58.3 | 52.3 | 47.8 | 44.8 | 25.0 |
| 16 | 7.6 | 57.3 | 49.7 | 55.3 | 47.7 | 43.7 | 40.7 | 25.0 |
| 20 | 8.5 | 55.8 | 47.3 | 53.8 | 45.3 | 41.7 | 38.7 | 25.0 |
| 25 | 9.6 | 54.3 | 44.7 | 52.3 | 42.7 | 39.8 | 36.8 | 24.3 |
| 31.25 | 10.7 | 52.9 | 42.2 | 50.9 | 40.2 | 37.9 | 34.9 | 23.6 |
| 62.5 | 15.5 | 44.4 | 32.9 | 46.4 | 30.9 | 31.8 | 28.8 | 21.5 |
| 100 | 19.9 | 45.3 | 25.4 | 43.3 | 23.4 | 27.8 | 24.8 | 20.1 |
| 155 | 25.3 | 42.5 | 17.2 | 40.5 | 15.2 | 23.9 | 20.9 | 18.8 |
| 200 | 29.2 | 40.8 | 11.6 | 38.8 | 9.6 | 21.7 | 18.7 | 18.0 |
| 250 | 33.0 | 39.3 | 6.3 | 37.3 | 4.3 | 19.8 | 16.8 | 17.3 |
| 300 | 36.6 | 38.2 | 1.6 | 36.2 | 0 | 18.2 | 15.2 | 16.8 |
| 400 | 43.2 | 36.3 | N/A | 34.3 | N/A | 15.7 | 12.7 | 15.9 |
| 550 | 52.0 | 34.2 | N/A | 32.2 | N/A | 12.9 | 9.9 | 14.9 |

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