

**4 PAIR 24 AWG
CATEGORY 5e Plenum
TYPE CMP (Tested to 100 MHz)
1000' Box**



Compliance:

UL 444, Communications Cable
NEC Article 800
ETL Verified to TIA-568-B.2, Category 5e
UL Listed Type CMP
C(UL) Listed Type CMP
NFPA 262, Plenum Flame Test (UL 910)
CSA C22.2 No. 214
ICEA-S-80-576
California State Fire Marshal Approved
Restriction of Hazardous Substances (RoHS)

Applications:

Gigabit Ethernet (1000Base-T)
100Base-T
High Speed Voice/Data Applications
100Base-TX
Video to the Desktop
ISDN
Multimedia
55/155 Mbps ATM
100Base VG-AnyLan

1.0 SCOPE: This cable consists of 4 pair 24 AWG solid bare copper; color coded FEP insulation; overall blue PVC jacket.

2.0 CONSTRUCTION:

2.1 CONDUCTOR:

- 2.1.1 Material: Bare Copper
- 2.1.2 Size: 24 AWG
- 2.1.3 Construction: Solid

2.2 INSULATION:

- 2.2.1 Material: FEP
- 2.2.2 Wall Thickness: .007" nom.
- 2.2.3 O.D.: .034" nom.
- 2.2.4 Color code:

- Pair 1: 1-Blue
2-White-Blue
- Pair 2: 1-Orange
2-White-Orange
- Pair 3: 1-Green
2-White-Green
- Pair 4: 1-Brown
2-White-Brown

2.3 PAIRS:

- 2.3.1 2 conductors twisted together with a varying LHL.

2.4 CORE ASSEMBLY:

- 2.4.1 4 twisted pairs are cabled to form round core.

2.5 JACKET:

- 2.5.1 Material: Plenum PVC
- 2.5.2 Wall Thickness: .014" nom.
- 2.5.3 OD: .168" nom.
- 2.5.4 Color(s): Blue
- 2.5.5 Ripcord run parallel under jacket
- 2.5.6 Markings: "PAIGE 9P2445E5B1 E191596++
24 AWG CMP C(UL)US – ETL VERIFIED TO
TIA-568-B.2 CAT 5E RoHS COMPLIANT"
Sequential footage markers provided
every 2 feet.

2.6 PUT-UPS:

- 2.6.1 1000' Box
- 2.6.2 Weight: 24.1 lbs / 1000'

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2.7 ELECTRICAL PROPERTIES

- 2.7.1 Temperature: 75°C
- 2.7.2 Voltage: 300 Volt
- 2.7.3 Mutual Capacitance: 14 pF/ft nom.
- 2.7.4 Char. Impedance: 100 Ohms ± 15
- 2.7.5 Propagation Delay Skew: 45 ns/100m max.
- 2.7.6 Velocity of Propagation: 72% nom.
- 2.7.7 DC Resistance: 9.38 Ohms/100m

Frequency MHz	Return Loss dB Minimum	Attenuation dB/100m Maximum	NEXT dB/100m Minimum	PSNEXT dB/100m Minimum
1	20.0	2.0	65.3	62.3
4	23.0	4.1	56.3	53.3
8	24.5	5.8	51.8	48.8
10	25.0	6.5	50.3	47.3
16	25.0	8.2	47.3	44.3
20	25.0	9.3	45.8	42.8
25	24.3	10.4	44.3	41.3
31.25	23.6	11.7	42.9	39.9
62.5	21.5	17.0	38.4	35.4
100	20.1	22.0	35.3	32.3

Frequency MHz	ELFEXT dB/100m Minimum	PSELFEXT dB/100m Minimum
1	63.8	60.8
4	51.7	48.7
8	45.7	42.7
10	43.8	40.8
16	39.7	36.7
20	37.7	34.7
25	35.8	32.8
31.25	33.9	30.9
62.5	27.8	24.8
100	23.8	20.8

Printing to be permanently identified via inkjet or print wheel print. (Embossed NOT Acceptable).

(*) Ascending / Descending Footage to Repeat Every 2 Feet.

(**) Manufacturer's lot number (for traceability)

(***) Cable Mill Factory Identification

(****) UL or ETL Listed & CSA Certified or C(UL)US Listed Acceptable

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