

# Paige® Cable 9X2445E | Premium CAT5E Cable, 99% Solid Copper, 4 Pair, 24 AWG, Type CMR, 1000 ft Box



## SCOPE

This cable consists of 4 pair 24 AWG solid bare copper; color-coded HD Polyethylene insulation; overall white FR-PVC jacket.

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## COMPLIANCE

- UL 444, Communications Cable
- NEC Article 800
- ETL Verified to TIA-568-B.2, Category 5e
- UL Listed Type CMR
- C(UL) Listed Type CMG
- UL 1666 Riser Flame Test
- 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

## CONDUCTOR

- Material: Bare Copper
- Size: 24 AWG
- Construction: Solid

## INSULATION

- Material: HD Polyethylene
- Wall Thickness: .0076 inch nom.
- O.D.: .036 inch nom.

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- 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

## PAIRS

- 2 conductors twisted together with a varying LHL.

## CORE ASSEMBLY

- 4 twisted pairs are cabled to form round core

## JACKET

- Material: FR-PVC
- Wall Thickness: .014 inch nom.
- OD: .180 inch nom.
- Color: White
- Ripcord run parallel under jacket
- Markings PAIGE 9X2445EXYZ 24/4 PR SOL CAT5E 350 MHz CMR (\*\*\*\*) 75° C XXXXXX (\*\*\*) ROHS COMPLIANT (\*\*) (\*)

## PUT-UPS

- 1000 ft BOX
- Weight: 22 lbs / 1000 ft

## ELECTRICAL PROPERTIES

- Temperature: 75°C
- Voltage: 300 Volt
- Mutual Capacitance: 14 pF/ft nom.
- Char. Impedance: 100 Ohms  $\pm$  15
- Propagation Delay Skew: 45 ns/100m max.
- Velocity of Propagation: 70% nom.
- DC Resistance: 9.38 Ohms/100m

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Frequency MHz	1	4	8	10	16	20	25	31.25	62.5	100
<b>Return Loss dB Minimum</b>	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1
<b>Attenuation dB/100m Maximum</b>	2.0	4.1	5.8	6.5	8.2	9.3	10.4	11.7	17.0	22.0
<b>NEXT dB/100m Minimum</b>	65.3	56.3	51.8	50.3	47.3	45.8	44.3	42.9	38.4	35.3
<b>PSNEXT dB/100m Minimum</b>	62.3	53.3	48.8	47.3	44.3	42.8	41.3	39.9	35.4	32.3
<b>ELFEXT dB/100m Minimum</b>	63.8	51.7	45.7	43.8	39.7	37.7	35.8	33.9	27.8	23.8
<b>PSELFEXT dB/100m Minimum</b>	60.8	48.7	42.7	40.8	36.7	34.7	32.8	30.9	24.8	20.8