



4245

4 Pair 24AWG UTP Category 5E CMR

10/100 BaseT Ethernet, IP CCTV, Digital Integration, HDBaseT

Construction & Dimensions

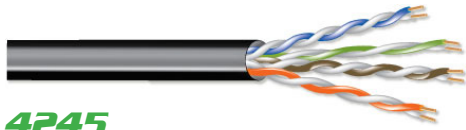
| CONDUCTOR PARAMETERS | |
|--|--|
| Number Of Pairs | 4 |
| AWG Size | 24 |
| Conductor Stranding | Solid |
| Conductor Type | Bare Copper |
| Nominal DCR | 26 Ohm/1000ft |
| INSULATION PARAMETERS | |
| Insulation Type | Polyolefin |
| Insulation Color Code | 1.Blue,WH-Blue 2.Orange,WH-Orange 3.Green,WH-Green 4.Brown, WH-Brown |
| SHIELDING PARAMETERS | |
| Shield Type | Unshielded Twisted Pair (UTP) |
| ELECTRICAL CHARACTERISTICS | |
| Nominal Impedance | 100 Ohm |
| Nominal Capacitance Between Conductors | 14 pF/ft |

Overall Construction

| OVERALL CONSTRUCTION PARAMETERS | |
|---------------------------------|----------------------------|
| Total Number of Conductors | 8 |
| Jacket Type | PVC |
| Nominal Cable O.D. | 0.191 in |
| Plenum | No |
| NEC UL Rating | CMR |
| RoHS Compliant | Yes |
| ANSI/TIA Category | Category 5E TIA/EIA 568C.2 |
| TIA Test | ANSI/TIA-568-C.2 |
| Pull Tension | 25 lbs |
| Bend Radius | 0.955 in |
| Cable Weight | 21 lbs |

Overall Electrical & Optical Characteristics

| OVERALL ELECTRICAL/OPTICAL CHARACTERISTICS | |
|--|-----------------------|
| Nominal Velocity of Propagation (VP) | 72 % |
| Delay Skew | 25 ns/100m |
| UL Flammability | UL1666 Vertical Shaft |
| CSA Flammability | FT4 |
| Operating Range | -20 to 60 Deg C |
| UL Voltage Rating | 300 |



4245

Electrical Performance

| Frequency (Mhz) | Max. Insertion Loss | Min. NEXT | Min. PSNEXT | Min. PSACR | Min. ACR | Min. PSACRF (PSELF-EXT) | Min. ACRF (ELF-EXT) | Min. RL (Return Loss) | Max/Min Input Imp. Unfit | Max/Min Fitted Imp. |
|--|---------------------|-----------|-------------|------------|----------|-------------------------|---------------------|-----------------------|--------------------------|---------------------|
| 1 MHz | 2 db/100m | 70.3 dB | 68.3 dB | 66.3 dB | 70.3 dB | 64.8 dB | 67.8 dB | 20 dB | 100 ± 15 Ohm | 100 ± 15 Ohm |
| 4 MHz | 4 db/100m | 61.3 dB | 59.3 dB | 55.3 dB | 59.3 dB | 52.8 dB | 55.8 dB | 23.6 dB | 100 ± 15 Ohm | 100 ± 15 Ohm |
| 8 MHz | 5.7 db/100m | 56.8 dB | 54.8 dB | 49.1 dB | 53.1 dB | 46.7 dB | 49.7 dB | 24.5 dB | 100 ± 15 Ohm | 100 ± 15 Ohm |
| 10 MHz | 6.4 db/100m | 55.3 dB | 53.3 dB | 46.9 dB | 50.9 dB | 44.8 dB | 47.7 dB | 25 dB | 100 ± 15 Ohm | 100 ± 15 Ohm |
| 16 MHz | 8.1 db/100m | 52.2 dB | 50.2 dB | 42.1 dB | 46.1 dB | 40.7 dB | 43.7 dB | 25 dB | 100 ± 15 Ohm | 100 ± 15 Ohm |
| 20 MHz | 9.1 db/100m | 50.8 dB | 48.8 dB | 39.7 dB | 43.7 dB | 38.8 dB | 41.8 dB | 25 dB | 100 ± 15 Ohm | 100 ± 15 Ohm |
| 25 MHz | 10.2 db/100m | 49.3 dB | 47.3 dB | 37.1 dB | 41.1 dB | 36.8 dB | 39.8 dB | 24.3 dB | 100 ± 15 Ohm | 100 ± 15 Ohm |
| 31.25 MHz | 11.4 db/100m | 47.9 dB | 45.9 dB | 34.5 dB | 38.5 dB | 34.9 dB | 37.9 dB | 23.6 dB | 100 ± 15 Ohm | 100 ± 15 Ohm |
| 62.5 MHz | 16.7 db/100m | 43.4 dB | 41.1 dB | 25 dB | 29 dB | 38.9 dB | 31.9 dB | 21.5 dB | 100 ± 15 Ohm | 100 ± 15 Ohm |
| 100 MHz | 21 db/100m | 40.3 dB | 38.3 dB | 17.3 dB | 21.3 dB | 34.8 dB | 27.8 dB | 20.1 dB | 100 ± 15 Ohm | 100 ± 15 Ohm |
| 155 MHz | 26.6 db/100m | 37.4 dB | 35.4 dB | 8.9 dB | 12.8 dB | 21 dB | 24 dB | 18.8 dB | 100 ± 22 Ohm | 100 ± 15 Ohm |
| 200 MHz | 30.5 db/100m | 35.8 dB | 33.8 dB | 3.3 dB | 7.3 dB | 18.8 dB | 21.8 dB | 18 dB | 100 ± 32 Ohm | 100 ± 15 Ohm |
| 250 MHz | 34.4 db/100m | 34.3 dB | 32.3 dB | | 1.9 dB | 16.8 dB | 19.8 dB | 17.3 dB | 100 ± 32 Ohm | 100 ± 15 Ohm |
| 300 MHz | 38 db/100m | 33.1 dB | 28.2 dB | | | 15.2 dB | 18.2 dB | 14.4 dB | 100 ± 32 Ohm | 100 ± 15 Ohm |
| 350 MHz | 41.4 db/100m | 32.1 dB | 27.2 dB | | | 13.9 dB | 16.9 dB | 13.8 dB | 100 ± 32 Ohm | 100 ± 15 Ohm |
| Tested to 350Mhz - Values above 100Mhz are for Engineering Purposes Only | | | | | | | | | | |

Related Products

| RELATED PRODUCTS | |
|-----------------------------|----------------|
| Plenum Number | 254245 |
| Indoor/Outdoor Non Aquaseal | 4245IO |
| Outdoor Direct Burial 1 | 4245OSP |
| Outdoor Direct Burial 2 | M57562 |
| Jack | KJ458MT-C5E-xx |
| Modular Plug | 32-EZP |
| Modular Plug 2 | 32-5998UL |

Part Numbers

| Part Number | Jacket Color | Put Up Length |
|---------------|----------------|---------------|
| 4245EZGY1000 | GRAY | 1000 |
| 4245EZBK1000 | BLACK | 1000 |
| 4245EZBL1000 | BLUE | 1000 |
| 4245EZRD1000 | RED | 1000 |
| 4245EZWH1000 | WHITE | 1000 |
| 4245EZOR1000 | ORANGE | 1000 |
| 4245EZGN1000 | GREEN | 1000 |
| 4245EZYE1000 | YELLOW | 1000 |
| 4245EZVT1000 | VIOLET | 1000 |
| 4245EZBN1000 | BROWN | 1000 |
| 4245EZSGN1000 | SECURITY GREEN | 1000 |