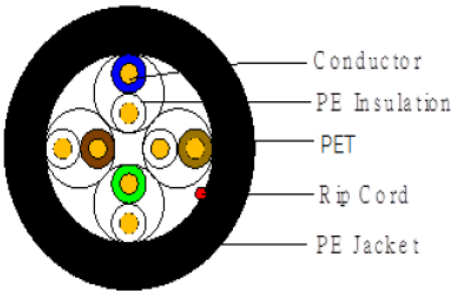
# U/UTP 4Pairs cable-category5E-PE Sheath

| Content of the Data Sheet | | | | | |
|---|---|---|---|---|---|
| Sheath Printing | HIKVISION DATA CABLE 4PR 24AWG U/UTP CAT5E OUTDOOR PE VERIFIED TO ANSI/TIA-568-C.2 ****m mm/dd/yyyy | | | | |
| Customer Reference | DS-1LN5E0-UU/E | | | | |
| Category | U/UTP CAT5E-4P- PE | | | | |
| Reference Standard | ANSI/TIA-568-C.2 | | | | |
| Conductor | Material | Solid-Bare Copper | | | |
| | | Content | 99.99% | | |
| | Nom.O.D.(mm) | 0.500 (24AWG) | up | +0.01 | |
| | | | down | -0.01 | |
| Insulation | Material | HDPE | | | |
| | Diameter | 0.88±0.03mm | | | |
| Sheath | Thickness | 0.55±0.03 mm | | | |
| | External O.D. | 5.0±0.3 mm | | | |
| | Surface | Clean,Frap,Satiation | | | |
| | Material | PE | | | |
| | Color | Black | | | |
| Surface Printing | Letter height | 2.8mm | | | |
| | Color | White | | | |
| | Print error & Space | ≤±0.5%，1m | | | |
| Core Color | 1 White- Blue /Blue | 2 White-Orange /Orange | | | |
| | 3 White- Green /Green | 4 White- Brown /Brown | | | |
| Packing | Wooden Tray & Carton | | | | |
| Carton dimension | Per request | | | | |
| Packing length | (305±0.5)m | | | | |
| Rip-cord | Yes | Drain wire | No | | |
| Sheath Physical Properties | Before Aging Tensile Strength (Mpa) ≥10<br>Elongation(%) ≥300 | | | | |
| | Aging Period(℃×hrs) 100℃×24h×10d | | | | |
| | After Aging Tensile Strength(Mpa) ≥12.5<br>Elongation(%) ≥125 | | | | |
| | Cold bend(-20±2℃×4h) 8×Cable O.D.，No visible cracks | | | | |
| Electrical Characteristics (20℃) | 1.0-100.0MHz Impedance(Ω) 100±15 | | | | |
| | 1.0-100.0MHz Delay Skew (ns/100m) ≤552 | | | | |
| | DC Resistance(Ω/100m) max 9.5 | | | | |
| | DC Conductor Resistance Unbalance(%) max 2.0 | | | | |




Technical Performance(100m):

| Frequency (MHz) | RL ≥dB | ATT(20℃) ≤dB | NEXT ≥dB | Phase DELAY ≤ns |
|---|---|---|---|---|
| 1 | 20.0 | 2.0 | 65.3 | 45.0 |
| 4.0 | 23.0 | 4.0 | 56.3 | 45.0 |
| 8.0 | 24.5 | 5.8 | 51.8 | 45.0 |
| 10.0 | 25.0 | 6.5 | 50.3 | 45.0 |
| 16.0 | 25.0 | 8.2 | 47.2 | 45.0 |
| 20.0 | 25.0 | 9.3 | 45.8 | 45.0 |
| 25.0 | 24.3 | 10.4 | 44.3 | 45.0 |
| 31.25 | 23.6 | 11.7 | 42.9 | 45.0 |
| 62.5 | 21.5 | 17.0 | 38.4 | 45.0 |
| 100 | 20.1 | 22.0 | 35.3 | 45.0 |

| Frequency (MHz) | PSNEXT ≥dB | ELFEXT ≥dB | PSELFEXT ≥dB |
|---|---|---|---|
| 1 | 62.3 | 63.8 | 60.8 |
| 4 | 53.3 | 52.0 | 49.0 |
| 8 | 48.8 | 45.9 | 42.9 |
| 10 | 47.3 | 44.0 | 41.0 |
| 16 | 44.2 | 39.9 | 36.9 |
| 20 | 42.8 | 38.0 | 35.0 |
| 25 | 41.3 | 36.0 | 33.0 |
| 31.25 | 39.9 | 34.1 | 31.1 |
| 62.5 | 35.4 | 28.1 | 25.1 |
| 100 | 32.3 | 24.0 | 21.0 |

| | |
|---|---|
| Ambient temperature: -20℃ - 60℃ | Operating Voltage：≤60V |