



| Content of the Data Sheet | | | | |
|-----------------------------------|---|------------------------|------------|------------------|
| Sheath Printing | A&G CAT.5e U/UTP SOLID 24AWG×4P CM (UL) E525067 AG01 ETL VERIFIED to ANSI/TIA-568.2-D 0001M.....0305(Month /Year) | | | |
| Category | U/UTP CAT5E-4P-PVC-CM | | | |
| Reference Standard | ISO/IEC11801、TIA-568.2-D | | | |
| Conductor | Material | Solid-Bare Copper | | |
| | Nom.O.D.(mm) | 0.490 | up down | +0.005 -0.005 |
| Insulation | Material | HDPE | | |
| | Diameter | 0.87±0.05mm | | |
| Sheath | Thickness | 0.50±0.05 mm | | |
| | External O.D. | 5.0±0.4 mm | | |
| | Surface | Clean, Frap, Satiation | | |
| | Material | PVC(complies RoHS),CM | | |
| | Color | TBD | | |
| Surface Printing | Letter height | 3.0±0.3mm | | |
| | Color | Black | | |
| | 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 | According to the requires | | | |
| Packing length | (305±1.5)m | | | |
| Rip-cord | Yes | Drain wire | No | |
| | Before Aging Tensile Strength (Mpa) ≥13.5 Elongation(%) ≥150 Aging Period(°C×hrs) 100°C×24h×7d After Aging Tensile Strength(Mpa) ≥12.5 Elongation(%) ≥125 Cold bend(-20±2°C×4h) 8×Cable O.D. No visible cracks | | | |
| Electrical Characteristics (20°C) | 1.0-100.0MHz Impedance(Ω) 100±15 | | | |
| | 1.0-100.0MHz Delay Skew (ns/100m) ≤45 | | | |
| | DC Resistance(Ω/100m) max 9.5 | | | |
| | DC Conductor Resistance Unbalance(%) max 5.0 | | | |

Technical Performance (100m):

| Frequency (MHz) | RL ≥dB | ATT ≤dB | NEXT ≥dB | Phase DELAY ≤ns |
|-----------------|--------|---------|----------|-----------------|
| 1 | 20.0 | 2.0 | 65.3 | 570.00 |
| 4.0 | 23.0 | 4.1 | 56.3 | 552.00 |
| 8.0 | 24.5 | 5.8 | 51.8 | 546.73 |
| 10.0 | 25.0 | 6.5 | 50.3 | 545.38 |
| 16.0 | 25.0 | 8.2 | 47.2 | 543.00 |
| 20.0 | 25.0 | 9.3 | 45.8 | 542.05 |
| 25.0 | 24.3 | 10.4 | 44.3 | 541.20 |
| 31.25 | 23.6 | 11.7 | 42.9 | 540.44 |
| 62.5 | 21.5 | 17.0 | 38.4 | 538.55 |
| 100 | 20.1 | 22.0 | 35.3 | 537.60 |

| Frequency (MHz) | PSNEXT ≥dB | ELFEXT ≥dB | PSELFEXT ≥dB |
|-----------------|------------|------------|--------------|
| 1 | 62.3 | 63.8 | 60.8 |
| 4 | 53.3 | 51.8 | 48.8 |
| 8 | 48.8 | 45.7 | 42.7 |
| 10 | 47.3 | 43.8 | 40.8 |
| 16 | 44.4 | 39.7 | 36.7 |
| 20 | 42.8 | 37.8 | 34.8 |
| 25 | 41.3 | 35.8 | 32.8 |
| 31.25 | 39.9 | 33.9 | 30.9 |
| 62.5 | 35.4 | 27.9 | 24.9 |
| 100 | 32.3 | 23.8 | 20.8 |



| Part No | Description |
|-----------|----------------------------|
| 108-51001 | CAT. 5e UTP CABLE 305M BOX |