

Part No: C5EC-F00
Description: The TruLan Cat 5E U/UTP cable is the ideal choice for high speed data networks and is suitable for external applications



TESTED TO
350MHz



Construction

Conductor : Bare Copper
AWG : 24(1)
Insulation Material : High Density Polyethylene (HDPE)
Number of Pairs : 4
Pair Identification : White/Blue, Blue/White; White/Orange, Orange/White
 : White/Green, Green/White; White/Brown, Brown/White
Sheath Material : Polyethylene (PE)
Sheath Colour : Black



Electrical Characteristics

Max. Conductor Resistance @ 20°C : ≤ 9.5 Ω/100m
Max. Resistance Unbalanced : ≤ 2.5 %
Nominal Impedance (1-100MHz) : 100 ± 15 Ω
Mutual Capacitance : ≤ 5.6nF/100m
Capacitance Unbalanced to Earth : ≤ 330 pF/ 100m
NVP : 68.5 %
Max. Delay Skew : ≤ 45 nS/ 100m
Voltage Rating EN 50525-1 : 450/750V*
Test Voltage : 2.5kV (AC)
 *Suitable for installation where Band II 450/750v cables are present. Not suitable for connection to mains supply

Physical Characteristics

Overall Diameter : 5.1 ± 0.3mm
Bend Radius : Fixed 4 x OD Flexing 8 x OD
Temperature Rating : Fixed -20°C to 60°C Flexing -10°C to 60°C
Weight : 40 kg/km

Transmission Performance

| Frequency | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 | 100 | 155 | 200 | 300 | 350 | MHz |
|-------------|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| Attenuation | 2.1 | 3.90 | 6.2 | 7.90 | 8.9 | 11.2 | 16.2 | 21.0 | 26.6 | 30.7 | 38.7 | 41.4 | ≤ dB |
| Return Loss | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 17.1 | 14.1 | 12.0 | 10.1 | 9.0 | 7.2 | 6.6 | ≥ dB |
| NEXT | 60.0 | 54.8 | 48.5 | 45.2 | 43.7 | 40.5 | 35.7 | 32.3 | 29.2 | 27.3 | 24.4 | 23.2 | ≥ dB |
| PS NEXT | 57.0 | 51.8 | 45.5 | 42.2 | 40.7 | 37.5 | 32.7 | 29.3 | 27.0 | 25.2 | 22.3 | 21.2 | ≥ dB |
| ACRF | 58.6 | 46.6 | 38.6 | 34.5 | 32.6 | 28.7 | 22.7 | 18.6 | 17.5 | 15.3 | 11.8 | 10.5 | ≥ dB |
| PSACRF | 55.6 | 43.6 | 35.6 | 31.5 | 29.6 | 25.7 | 19.7 | 15.6 | 11.8 | 9.6 | 6.1 | 4.7 | ≥ dB |

Standards

| | | | |
|-------------------------------|----------------------------------|-------------------------|------------------------------|
| RoHS3 Compliance | : Yes | UV & Weather Resistance | : ISO 4892-3 |
| CE Compliant | : LVD (2014/35/EU) | CPR Classification | : Fca (EN50575:2014+A1:2016) |
| Manufactured in accordance to | : TIA/EIA 568-C.2, ISO/IEC 11801 | | |