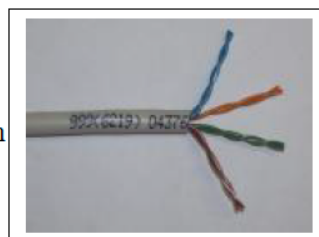


### Cat5e

**Compliant to ISO 11801, TIA/EIA 568-C.2 and EN50173  
EC Verified**

### **Material, Construction & Packaging**

|                    |                                                                                              |
|--------------------|----------------------------------------------------------------------------------------------|
| Conductor          | 24 AWG solid bare copper (0.511mm)                                                           |
| Insulation         | Polyethylene                                                                                 |
| Pairs Colours      | 1. Blue/White-Blue<br>2. Green/White-Green<br>3. Orange/White-Orange<br>4. Brown/White-Brown |
| Sheath             | PVC Nominal OD 5.2 mm                                                                        |
| Weight & Packaging | 16 Kg/500m reel<br>11 Kg/305m box                                                            |
| Fire Safety Rating | IEC 60332-1                                                                                  |
| Temperature Range  | Installation 0° to 50°<br>Operational -20° to +70°.                                          |



### **Transmission Characteristics**

| Frequency M/Hz | Attenuation dB/100m | Next dB | PSNext dB | PSELFEXT dB |
|----------------|---------------------|---------|-----------|-------------|
| 1              | 2.1                 | 65.3    | 62.3      | 60.8        |
| 4              | 4.3                 | 56.3    | 53.3      | 48.7        |
| 10             | 6.6                 | 50.3    | 47.3      | 40.8        |
| 16             | 8.2                 | 47.3    | 44.3      | 36.7        |
| 20             | 9.2                 | 45.8    | 42.8      | 34.7        |
| 31.25          | 11.8                | 42.9    | 39.9      | 30.9        |
| 62.5           | 17.1                | 38.4    | 35.4      | 24.8        |
| 100            | 22                  | 35.3    | 32.3      | 20.8        |

### **Electrical Characteristics at 20°**

|                          |                                    |
|--------------------------|------------------------------------|
| DC Resistance            | 93.8 Ohms/Km max                   |
| Resistance Unbalance     | 2% max                             |
| Mutual Capacitance       | 56 nF/Km max                       |
| Capacitance Unbalance    | 1000 pF/Km max                     |
| Skew                     | 450 ns/Km max                      |
| Velocity of Propagation  | 68% (0.68 x 3x10 <sup>8</sup> m/s) |
| Characteristic Impedance | 100 Ohms ±% 15% 1.0 Mhz – 100Mhz   |