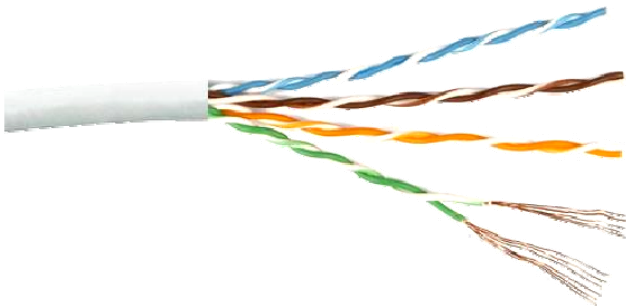


## i-Net Networks Category6 Unshielded Stranded Cable



### Material

Conductive material: Soft annealed electrolytic copper  
 Conductor insulation: HDPE, film-porous-film structure  
 Cable jacket: PVC/LSZH

### Compliance

Meets ANSI/EIA/TIA 568-B.2-1 requirements  
 Meets fire retardant low smoke IEC60332-1 rating

### Physical

Conductor diameter:  $7 \times 0.16 \text{ mm} \pm 0.01 \text{ mm}$  (24 AWG)  
 Insulated conductor diameter:  $1.03 \pm 0.2 \text{ mm}$  (0.04"  $\pm 0.008$ ")  
 Outer cable diameter:  $5.3 \pm 0.2 \text{ mm}$  (0.2"  $\pm 0.008$ ")  
 Jacket thickness: 0.4 mm (0.0157")  
 Minimum bend radius:  
 8x $\varnothing$  (installation), 6x $\varnothing$  (vertical cabling), 4x $\varnothing$  (horizontal cabling)  
 Operating temperature:  $-5^{\circ}\text{C} \sim +60^{\circ}\text{C}$  ( $+23^{\circ}\text{F} \sim +140^{\circ}\text{F}$ )  
 Weight per 1000 ft (304.8 m): 11.5 kg (25.35 lbs)  
 Standard package: 1000 ft (304.8 m)

### Electrical

| Frequency, MHz | RL   | Attenuation, dB | NEXT, dB | PSNEXT, dB | ELFEXT, dB | PSELFEXT, dB |
|----------------|------|-----------------|----------|------------|------------|--------------|
| 1.0            | 20.0 | 2.4             | 74.3     | 72.3       | 67.8       | 64.8         |
| 4.0            | 23.0 | 4.5             | 65.3     | 63.3       | 55.8       | 52.8         |
| 8.0            | 24.5 | 6.4             | 60.8     | 58.8       | 49.7       | 46.7         |
| 10.0           | 25.0 | 7.1             | 59.3     | 57.3       | 47.8       | 44.8         |
| 16.0           | 25.0 | 9.1             | 56.2     | 54.2       | 43.7       | 40.7         |
| 20.0           | 25.0 | 10.2            | 54.8     | 52.8       | 41.8       | 38.8         |
| 25.0           | 24.2 | 11.4            | 53.3     | 51.3       | 39.8       | 36.8         |
| 31.25          | 23.3 | 12.8            | 51.9     | 49.9       | 37.9       | 34.9         |
| 62.5           | 20.7 | 18.5            | 47.4     | 45.4       | 31.9       | 28.9         |
| 100.0          | 19.0 | 23.8            | 44.3     | 42.3       | 27.8       | 24.8         |
| 200.0          | 16.4 | 34.8            | 39.8     | 37.8       | 21.8       | 18.8         |
| 250.0          | 15.6 | 39.4            | 38.3     | 36.3       | 19.8       | 16.8         |

### Technical

|                                      |                                           |
|--------------------------------------|-------------------------------------------|
| Conductor resistance at 20°C (68°F)  | 9.38 $\Omega$ /100m (2.9 $\Omega$ /100ft) |
| DC resistance unbalance              | 5%                                        |
| Pair-to-Ground capacitance unbalance | 330pF/100m (101pF/100ft)                  |
| Impedance 1-250 MHz                  | 85 $\Omega$ -115 $\Omega$                 |
| Mutual capacitance                   | 5.6nF/m (1.7nF/ft)                        |
| Spark test                           | 2.5kV                                     |

### Ordering

|                    |                                                                                                                           |
|--------------------|---------------------------------------------------------------------------------------------------------------------------|
| HI06UR- <b>M-C</b> | i-Net Networks Horizontal Cable Category6 UTP Stranded 24AWG 4-Pair Milky Gray PVC                                        |
| <b>M</b>           | <b>M</b> -Milky Gray, <b>B</b> -Blue, <b>G</b> -Green, <b>Y</b> -Yellow, <b>O</b> -Orange, <b>R</b> -Red, <b>W</b> -White |
| <b>C</b>           | <b>C</b> -PVC, <b>L</b> -LSZH                                                                                             |