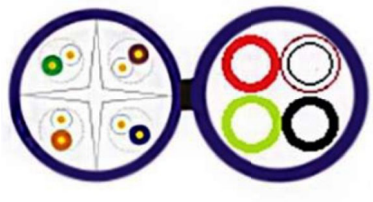
# (1) CAT6E 600MHz UTP Cable + (1) 16AWG 4C Audio Cable

## Cable Detail



## Approval

## Description

• Combination: CAT6E 600MHZ UTP + 16AWG 4C Audio Cable

## CAT6 UTP - Physical Characteristics

| | | |
|---|---|---|
| Conductor Material | | Bare Solid Copper |
| AWG | | 23AWG |
| Insulation Material | | HDPE |
| Jacket Material | | Flame retardant PVC |
| Conductor Diameter | (mm) | 0.57 |
| Insulation Diameter | (mm) | 0.23 Nom. |
| Outer Diameter | (mm) | 6.5 Nom. |
| Insulation colors | | White insulation with stripe (White/Blue, White/Green, White/Brown, White/Orange,) |

## 16AWG 4C Audio - Physical Characteristics

| | | |
|---|---|---|
| Conductor Material | | Copper |
| AWG | | 16AWG |
| Insulation Material | | Polyethylene/Polypropylene |
| Average Thickness | (mm) | 0.303 Nom. |
| Conductor Diameter | (mm) | 1.98 Nom. |
| Number of Conductors | | 4 |
| Insulation colors | | Red / White / Yellow / Blue |
| Lay Length | | Twist |
| Jacket Material | | PVC |
| Average Thickness | (mm) | 0.406 Nom. |
| Overall Cable Dia. | (mm) | 5.4 Nom. |
| Nominal Weight | 1000 ft. | 45 lbs. |

## CAT6 UTP - Electrical Characteristics

| Frequency (MHz) | Attenuation (dB/100m) Max. | RL (dB) Min. | NEXT (dB) Min. | PS-NEXT (dB) Min. |
|---|---|---|---|---|
| **1** | 2.10 | 20.0 | 75.3 | 72.3 |
| **4** | 3.80 | 23.0 | 66.3 | 63.3 |
| **8** | 5.30 | 24.5 | 61.8 | 58.8 |
| **10** | 5.90 | 25.0 | 60.3 | 57.3 |
| **16** | 7.50 | 25.0 | 57.2 | 54.2 |
| **20** | 8.40 | 25.0 | 55.8 | 52.8 |
| **25** | 9.40 | 24.3 | 54.3 | 51.3 |
| **31.25** | 10.50 | 23.6 | 52.9 | 49.9 |
| **62.5** | 15.00 | 21.5 | 48.4 | 45.4 |
| **100** | 19.10 | 20.1 | 45.3 | 42.3 |
| **200** | 27.60 | 18.0 | 40.8 | 37.8 |
| **250** | 31.10 | 15.6 | 39.3 | 36.6 |
| **300** | 34.30 | 16.8 | 38.1 | 35.1 |
| **500** | - | 15.2 | 34.8 | 35.1 |
| **600** | - | 14.7 | 33.6 | 30.6 |

| Frequency (MHz) | ELFEXT (dB/100m) Min. | PS-ELFEXT (dB) Min. | Delay (<=ns) | |
|---|---|---|---|---|
| **1** | 68.0 | 65.00 | 552 | |
| **4** | 56.0 | 53.00 | 546 | |
| **8** | 49.9 | 46.90 | 545 | |
| **10** | 48.0 | 45.00 | 543 | |
| **16** | 43.3 | 40.90 | 542 | |
| **20** | 42.0 | 39.00 | 541 | |
| **25** | 40.0 | 37.00 | 540 | |
| **31.25** | 38.1 | 35.10 | 538 | |
| **62.5** | 32.1 | 29.10 | 537 | |
| **100** | 28.0 | 25.00 | 536 | |
| **200** | 22.0 | 19.00 | 535 | |
| **250** | 20.0 | 17.00 | 534 | |
| **300** | 18.5 | 15.50 | 534 | |
| **500** | 14.0 | 11.00 | - | |
| **600** | 12.0 | 10.00 | - | |

* Values above 250MHz are information only.

## 16AWG 4C Audio - Electrical Characteristics

| | |
|---|---|
| Temperature Rating | -20 ~ +60°C |
| Operating Voltage Rating | 300 Volts |
| Capacitance Between Conductor @1 KHz | 23.5 Pf/M Nom. |
| DC Resistance (Ω/km) per Conductor @ 20 ˚C | 13.9 Ohms Nom. |

## Cable Marking

CATEGORY 6E 600 MHZ 4PR 23AWG AND 4 COND 16AWG AUDIO CABLE CMR FT4 C(ETL)US XXXXXXX ****FT

| Part Numbers | Jacket Color | Package |
|---|---|---|
| | Yel low | 500ft / RIB |