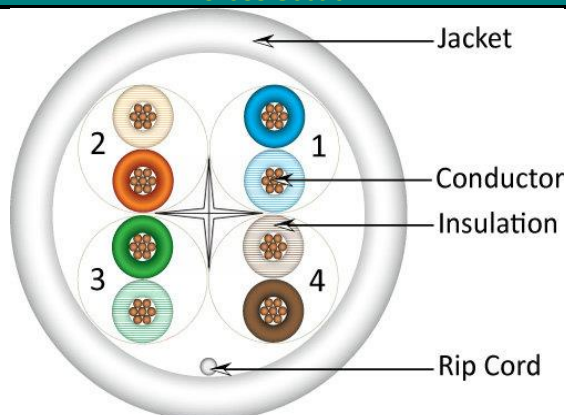


## Cross Section



## Features

Category-6, 24AWG, UTP, 8-Conductor, Stranded Bare Copper, PVC Jacket 305M Pull Box

## Features

- High-Performance Data Communications Cable
- Category-6 Unshielded Twisted Pair
- 24AWG Stranded Copper Conductors
- Easily Identified Color-Striped Pairs
- Exceeds TIA/EIA-568C.2, ISO/IEC 11801
- ETL Listed
- 305M Pull Box

## Technical Data

|                        |                                       |
|------------------------|---------------------------------------|
| Rated Temperature (oC) | -20~75                                |
| Application            | Horizontal Wiring in LAN              |
| Reference Standard:    | cETLus, TIA/EIA-568B.2, ISO/IEC 11801 |

## Construction

|                            |                      |
|----------------------------|----------------------|
| Conductor                  | Stranded Bare Copper |
| AWG                        | 24                   |
| Conductor Dia. (±0.005mm)  | 7/0.20               |
| Insulation                 | HDPE                 |
| Average Thickness(mm)      | 0,180                |
| Min. Point Thickness(mm)   | 0,166                |
| Insulation Dia.(±0.01mm)   | 0,96                 |
| Twisted Pair Dia.(±0.02mm) | 1,92                 |
| Separator                  | PE                   |
| Jacket                     | PVC                  |
| Average Thickness(mm)      | 0.66~0.60            |
| Outer Dia.(±0.2mm)         | 6,10                 |
| Rip Cord                   | Yes                  |

## Color of Pairs

|        |                     |
|--------|---------------------|
| Pair 1 | Blue,White-Blue     |
| Pair 2 | Orange,White-Orange |
| Pair 3 | Green,White-Green   |
| Pair 4 | Brown,White-Brown   |

## Jacket colors

White

## Performance

### Electrical Characteristics:

| Frequency (MHz) | Return loss (Min dB) | Attenuation Max (dB/100m) | NEXT (Min dB) |
|-----------------|----------------------|---------------------------|---------------|
| 1               | 20,0                 | 2,0                       | 65,3          |
| 4               | 23,0                 | 4,1                       | 56,3          |
| 8               | 24,5                 | 5,8                       | 51,8          |
| 16              | 26,0                 | 8,2                       | 47,3          |
| 20              | 26,5                 | 9,3                       | 45,8          |
| 62,5            | 25,0                 | 17,0                      | 38,4          |
| 100             | 25,0                 | 22,0                      | 35,3          |
| 200             | 18,0                 | 32,4                      | 30,8          |
| 250             | 17,3                 | 36,9                      | 29,3          |
| 300             | 16,8                 | 41,0                      | 28,2          |
| 400             | 15,9                 | 48,5                      | 26,3          |
| 500             | 15,2                 | 55,5                      | 24,8          |

| Frequency (MHz) | PSNEXT Min (dB) | ELFEXT Min (dB/100m) | PSELFEXT Min (dB/100m) | Delay Max (ns/100m) |
|-----------------|-----------------|----------------------|------------------------|---------------------|
| 1               | 62,3            | 63,8                 | 60,8                   | 570,0               |
| 4               | 53,3            | 51,7                 | 48,7                   | 552,0               |
| 8               | 48,8            | 45,7                 | 42,7                   | 546,7               |
| 16              | 44,3            | 39,7                 | 36,7                   | 543,0               |
| 20              | 42,8            | 37,7                 | 34,7                   | 542,0               |
| 62,5            | 35,4            | 27,8                 | 24,8                   | 538,6               |
| 100             | 32,3            | 23,8                 | 20,8                   | 537,6               |
| 200             | 27,8            | 17,7                 | 14,7                   | 536,5               |
| 250             | 26,3            | 15,8                 | 12,8                   | 536,3               |
| 300             | 25,2            | 14,2                 | 11,2                   | 536,1               |
| 400             | 23,3            | 11,7                 | 8,7                    | 535,8               |
| 500             | 21,8            | 9,8                  | 6,8                    | 535,6               |

### Electrical Characteristics:

|                                                |          |
|------------------------------------------------|----------|
| 1.0-100.0MHz Impedance (ohms)                  | 100 ± 15 |
| 1.0-100.0MHz Delay Skew (ns/100m)              | <=45     |
| Pair-to-Ground Capacitance Unbalance (pF/100m) | <=330    |
| Max. Conductor DC Resistance 20°C (ohms/km)    | 72,2     |
| Resistance Unbalance (%)                       | <=5      |

### Mechanical Characteristics:

|                               |                 |
|-------------------------------|-----------------|
| Test Object                   | Jacket          |
| Test Material                 | PVC             |
| Before Tensile Strength (Mpa) | >=13.8          |
| Aging Elongation (%)          | >=100           |
| Aging Condition (°Cxhrs)      | 100x168         |
| After Tensile Strength (Mpa)  | >=85% of unaged |
| Aging Elongation (%)          | >=50% of unaged |
| Cold Bend(-20±2°Cx4hrs)       | No crack        |

## Packaging

305M Pull Box