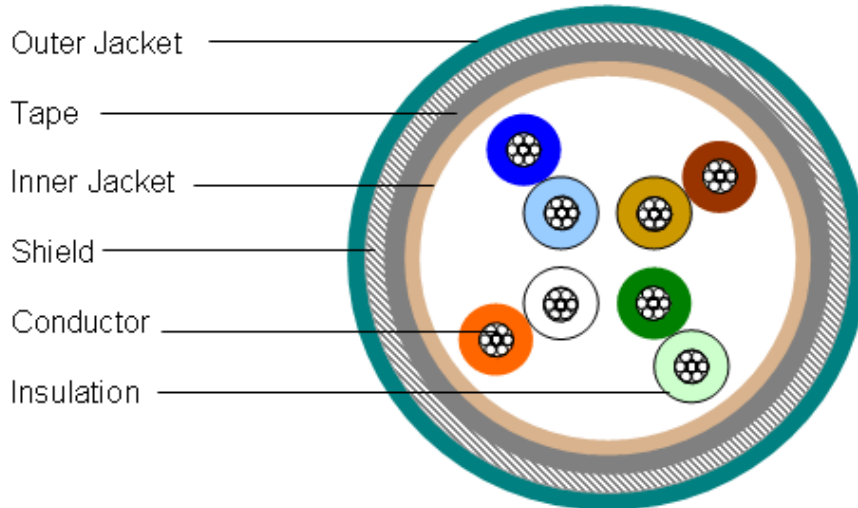




4602106/10 | 2004 ICAT5E TEAL REEL

Sunlight and Oil Resistant Category 5e F/UTP 2004 Flexible Cable, non-plenum, teal jacket, 4 pair count, 1000 ft (305 m) length, reel

Cross Section Drawing



Construction Materials

| | |
|-------------------------|--------------------------------------|
| Jacket Material | PVC |
| Conductor Material | Tinned copper |
| Inner Jacket Material | PVC |
| Insulation Material | Polyolefin |
| Shield (Braid) Coverage | 65 % |
| Shield (Braid) Material | Tinned copper |
| Shield (Tape) Material | Aluminum/Polypropylene/Aluminum tape |

Dimensions

| | |
|-----------------------------|---------------------|
| Cable Length | 305 m 1000 ft |
| Cable Weight | 44.97 lb/kft |
| Diameter Over Inner Jacket | 6.096 mm 0.240 in |
| Diameter Over Jacket | 8.001 mm 0.315 in |
| Diameter Over Shield (Tape) | 6.909 mm 0.272 in |
| Inner Jacket Thickness | 0.762 mm 0.030 in |
| Jacket Thickness | 0.508 mm 0.020 in |

Electrical Specifications

| | |
|----------------------------------|----------------------|
| ANSI/TIA Category | 5e |
| dc Resistance Unbalance, maximum | 5 % |
| dc Resistance, maximum | 9.38 ohms/100 m |
| Delay Skew, maximum | 45 ns |
| Mutual Capacitance | 5.6 nF/100 m @ 1 kHz |

4602106/10 | 2004 ICAT5E TEAL REEL

| | |
|---------------------------------------|---------------------|
| Nominal Velocity of Propagation (NVP) | 69 % |
| Operating Frequency, maximum | 100 MHz |
| Transmission Standards | ANSI/TIA-568-C.2 |
| Safety Voltage Rating | 300 V |
| Dielectric Strength, minimum | 1500 Vac 2500 Vdc |

Environmental Specifications

| | |
|--------------------------|--------------------------------------|
| Environmental Space | Non-plenum |
| Flame Test Method | CMR |
| Installation Temperature | 0 °C to +60 °C (+32 °F to +140 °F) |
| Operating Temperature | -40 °C to +75 °C (-40 °F to +167 °F) |

General Specifications

| | |
|--------------------------|------------------|
| Cable Type | F/UTP (shielded) |
| Pairs, quantity | 4 |
| Application | Industrial |
| Cable Component Type | Cordage |
| Packaging Type | Reel |
| Brand | CommScope® |
| Jacket Color | Teal |
| Product Number | 2004 |
| Conductor Gauge, singles | 24 AWG |
| Conductor Type, singles | Stranded |
| Conductors, quantity | 8 |

Mechanical Specifications

| | |
|--------------------------|---------------|
| Pulling Tension, maximum | 11 kg 25 lb |
|--------------------------|---------------|

Regulatory Compliance/Certifications

| Agency | Classification |
|-----------------|--------------------------------------------------------------------------------|
| RoHS 2011/65/EU | Compliant |
| ISO 9001:2008 | Designed, manufactured and/or distributed under this quality management system |



Electrical Performance

- Std Refers to the standard value listed under Transmission Standards in the Electrical Specifications above
- IL Insertion Loss (dB/100m)
- NEXT Near End Crosstalk (dB/100m)
- ACR Attenuation to Crosstalk Ratio (dB/100m)
- PSNEXT Power Sum Near End Crosstalk (db/100m)
- PSACR Power Sum Attenuation to Crosstalk Ratio (dB/100m)
- ACRF Attenuation to Crosstalk Ratio - Far End (dB/100m)
- PSACRF Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)
- RL Return Loss (dB)

| Freq. MHz | IL | NEXT | ACR | PSNEXT | PSACR | ACRF | PSACRF | RL |
|--------------|------|------|------|--------|-------|------|--------|------|
| | Std | Std | Std | Std | Std | Std | Std | Std |
| 1 | 2.4 | 65.3 | 62.9 | 62.3 | 59.9 | 63.8 | 60.8 | 20.0 |
| 4 | 4.9 | 56.3 | 51.4 | 53.3 | 48.4 | 51.8 | 48.8 | 23.0 |
| 8 | 6.9 | 51.8 | 44.8 | 48.8 | 41.8 | 45.7 | 42.7 | 24.5 |
| 10 | 7.8 | 50.3 | 42.5 | 47.3 | 39.5 | 43.8 | 40.8 | 25.0 |
| 16 | 9.9 | 47.2 | 37.3 | 44.2 | 34.3 | 39.7 | 36.7 | 25.0 |
| 20 | 11.1 | 45.8 | 34.7 | 42.8 | 31.7 | 37.8 | 34.8 | 25.0 |
| 25 | 12.5 | 44.3 | 31.8 | 41.3 | 28.8 | 35.8 | 32.8 | 24.2 |
| 31.25 | 14.1 | 42.9 | 28.8 | 39.9 | 25.8 | 33.9 | 30.9 | 23.3 |
| 62.5 | 20.4 | 38.4 | 17.9 | 35.4 | 14.9 | 27.9 | 24.9 | 20.7 |
| 100 | 26.4 | 35.3 | 8.9 | 32.3 | 5.9 | 23.8 | 20.8 | 19.0 |