

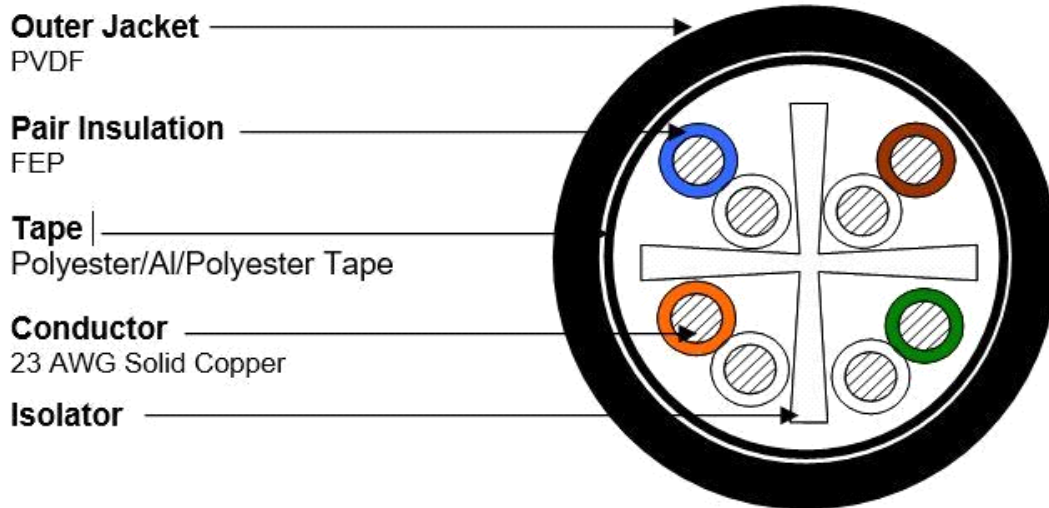


CS34P-10 Indoor/Outdoor Category 6 U/UTP Cable, plenum, outdoor rated, black jacket, 4 pair count, 1000 ft (305 m) length reel

Product Classification

| | |
|------------------------------|---|
| Portfolio | CommScope® |
| Product Type | Twisted pair cable |
| Regional Availability | Asia Australia/New Zealand EMEA Latin America North America |

Cross Section Drawing



Construction Materials

| | |
|----------------------------|-------------|
| Jacket Material | PVDF |
| Conductor Material | Bare copper |
| Insulation Material | FEP |
| Separator Material | FEP |

Dimensions

| | |
|--------------------------------------|---------------------|
| Cable Length | 305 m 1000 ft |
| Cable Weight | 28.80 lb/kft |
| Diameter Over Jacket, nominal | 6.756 mm 0.266 in |
| Jacket Thickness | 0.457 mm 0.018 in |

Electrical Specifications

| | |
|--|----------------------|
| ANSI/TIA Category | 6 |
| dc Resistance Unbalance, maximum | 4 % |
| dc Resistance, maximum | 8.00 ohms/100 m |
| Delay Skew, maximum | 45 ns |
| Mutual Capacitance | 5.6 nF/100 m @ 1 kHz |
| Nominal Velocity of Propagation (NVP) | 70 % |
| Operating Frequency, maximum | 250 MHz |
| Transmission Standards | ANSI/TIA-568-C.2 |
| Safety Voltage Rating | 300 V |
| Dielectric Strength, minimum | 1500 Vac 2500 Vdc |

Environmental Specifications

| | |
|---------------------------------|--|
| Environmental Space | Plenum |
| Smoke Test Method | CMP CMX |
| Flame Test Method | CMP NEC Article 800 NFPA 262 UL 444 UL 910 |
| Installation Temperature | -25 °C to +75 °C (-13 °F to +167 °F) |
| Operating Temperature | -40 °C to +75 °C (-40 °F to +167 °F) |

General Specifications

| | |
|---------------------------------|--------------------|
| Cable Type | U/UTP (unshielded) |
| Packaging Type | Reel |
| Pairs, quantity | 4 |
| Cable Component Type | Horizontal |
| Jacket Color | Black |
| Product Number | CS34P-IO |
| Conductor Gauge, singles | 23 AWG |
| Conductor Type, singles | Solid |
| Conductors, quantity | 8 |
| Separator Type | Isolator |

Mechanical Specifications

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

Regulatory Compliance/Certifications

| Agency | Classification |
|-----------------|--|
| RoHS 2011/65/EU | Compliant |
| ISO 9001:2015 | 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 IL

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 | 2.0 | 74.3 | 72.3 | 72.3 | 70.3 | 67.8 | 64.8 | 20.0 |
| 4 | 3.8 | 65.3 | 61.5 | 63.3 | 59.5 | 55.8 | 52.8 | 23.0 |
| 8 | 5.3 | 60.8 | 55.4 | 58.8 | 53.4 | 49.7 | 46.7 | 24.5 |
| 10 | 6.0 | 59.3 | 53.3 | 57.3 | 51.3 | 47.8 | 44.8 | 25.0 |
| 16 | 7.6 | 56.2 | 48.7 | 54.2 | 46.7 | 43.7 | 40.7 | 25.0 |
| 20 | 8.5 | 54.8 | 46.3 | 52.8 | 44.3 | 41.8 | 38.8 | 25.0 |
| 25 | 9.5 | 53.3 | 43.8 | 51.3 | 41.8 | 39.8 | 36.8 | 24.3 |
| 31.25 | 10.7 | 51.9 | 41.2 | 49.9 | 39.2 | 37.9 | 34.9 | 23.6 |
| 62.5 | 15.4 | 47.4 | 32.0 | 45.4 | 30.0 | 31.9 | 28.9 | 21.5 |
| 100 | 19.8 | 44.3 | 24.5 | 42.3 | 22.5 | 27.8 | 24.8 | 20.1 |
| 155 | 25.2 | 41.4 | 16.3 | 39.4 | 14.3 | 24.0 | 21.0 | 18.8 |
| 200 | 29.0 | 39.8 | 10.8 | 37.8 | 8.8 | 21.8 | 18.8 | 18.0 |
| 250 | 32.8 | 38.3 | 5.5 | 36.3 | 3.5 | 19.8 | 16.8 | 17.3 |