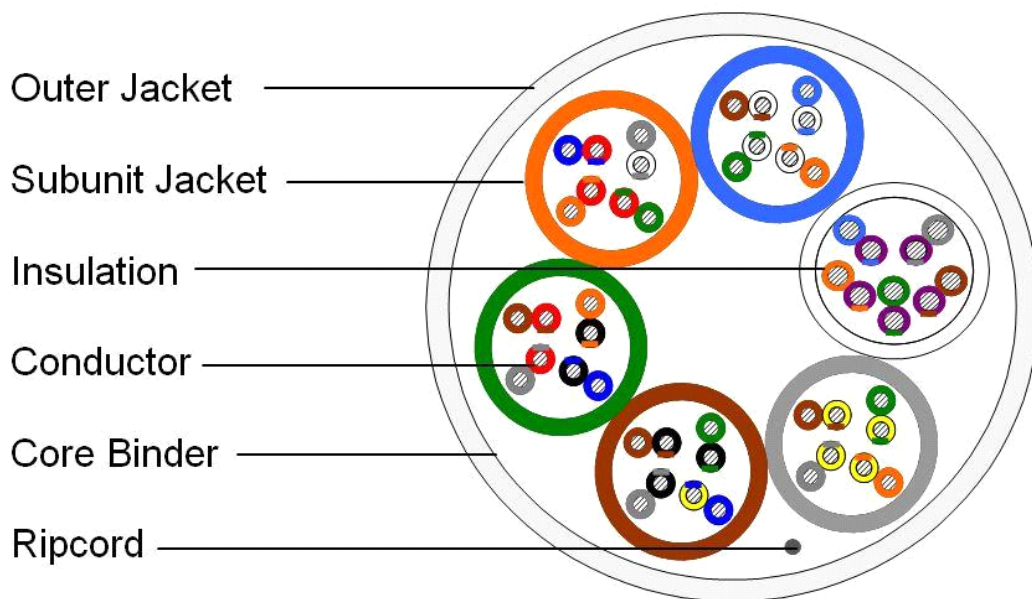


Category 5e U/UTP Cable, plenum, white jacket, 25 pair count, 1000 ft (305 m) length, reel

### Product Classification

<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Twisted pair cable
<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA   Latin America   North America

### Cross Section Drawing



### Construction Materials

<b>Jacket Material</b>	PVDF
<b>Conductor Material</b>	Bare copper
<b>Inner Jacket Material</b>	PVC
<b>Insulation Material</b>	FEP
<b>Ripcord Material</b>	Nylon

### Dimensions

<b>Cable Length</b>	305 m   1000 ft
<b>Cable Weight</b>	168.67 lb/kft
<b>Diameter Over Jacket, nominal</b>	15.011 mm   0.591 in

**Jacket Thickness** 0.457 mm | 0.018 in

## Electrical Specifications

**ANSI/TIA Category** 5e  
**Characteristic Impedance** 100 ohm  
**dc Resistance Unbalance, maximum** 5 %  
**dc Resistance, maximum** 9.38 ohms/100 m  
**Delay Skew, maximum** 15 ns  
**Mutual Capacitance at Frequency** 5.6 nF/100 m @ 1 kHz  
**Nominal Velocity of Propagation (NVP)** 71 %  
**Operating Frequency, maximum** 100 MHz  
**Operating Voltage, maximum** 80 V  
**Transmission Standards** ANSI/TIA-568-C.2 | CENELEC EN 50288-3-1 | ISO/IEC 11801 Class D  
**Safety Voltage Rating** 300 V  
**Dielectric Strength, minimum** 1500 Vac | 2500 Vdc  
**Note** All electrical transmission tests include swept frequency measurements

## Environmental Specifications

**Environmental Space** Plenum  
**Smoke Test Method** CMP  
**Flame Test Method** CMP | NFPA 262  
**Installation Temperature** 0 °C to +60 °C (+32 °F to +140 °F)  
**Operating Temperature** -20 °C to +60 °C (-4 °F to +140 °F)

## General Specifications

**Cable Type** U/UTP (unshielded)  
**Packaging Type** Reel  
**Pairs, quantity** 25  
**Cable Component Type** Backbone  
**Jacket Color** White  
**Product Number** CS24  
**Conductor Gauge, singles** 24 AWG  
**Conductor Type, singles** Solid  
**Conductors, quantity** 50  
**Subunit, quantity** 6

## Mechanical Specifications

**Pulling Tension, maximum** 68 kg | 150 lb

## Regulatory Compliance/Certifications

**Agency**

RoHS 2011/65/EU  
ISO 9001:2015

**Classification**

Compliant  
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	2.0	65.3	63.3	62.3	60.3	63.8	60.8	20.0
4	4.1	56.3	52.2	53.3	49.2	51.8	48.8	23.0
8	5.8	51.8	46.0	48.8	43.0	45.7	42.7	24.5
10	6.5	50.3	43.8	47.3	40.8	43.8	40.8	25.0
16	8.2	47.2	39.0	44.2	36.0	39.7	36.7	25.0
20	9.3	45.8	36.5	42.8	33.5	37.8	34.8	25.0
25	10.4	44.3	33.9	41.3	30.9	35.8	32.8	24.3
31.25	11.7	42.9	31.2	39.9	28.2	33.9	30.9	23.6
62.5	17.0	38.4	21.4	35.4	18.4	27.9	24.9	21.5
100	22.0	35.3	13.3	32.3	10.3	23.8	20.8	20.1