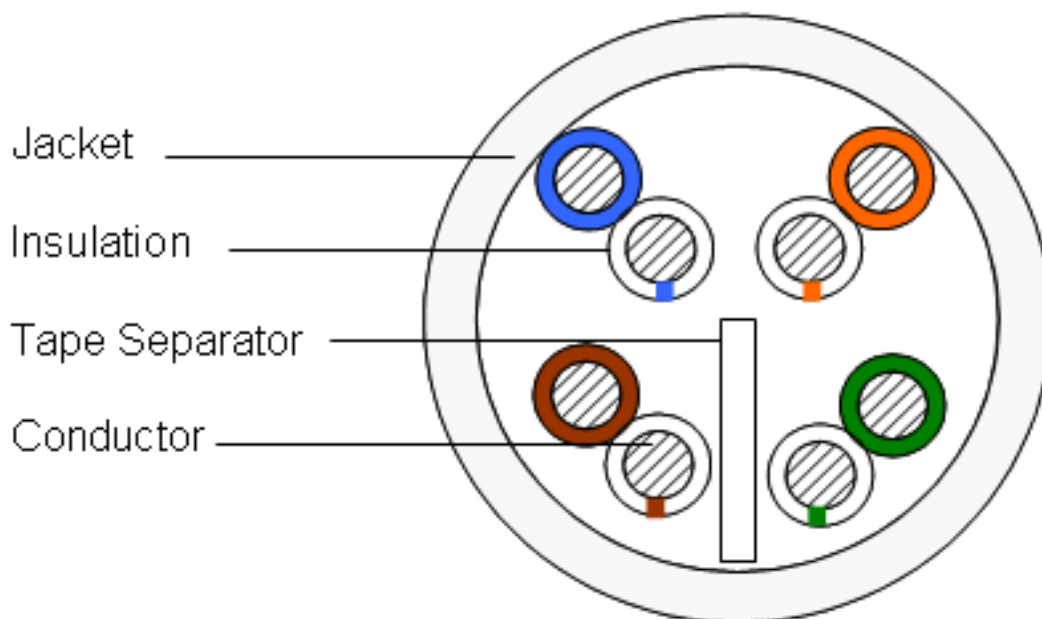


CS34P ETL Verified Category 6 U/UTP Cable, plenum, white jacket, 4 pair count, 1000 ft (305 m) length, CommPak

Product Classification

Portfolio	Uniprise®
Product Type	Twisted pair cable
Regional Availability	North America

Cross Section Drawing



Construction Materials

Jacket Material	PVC
Conductor Material	Bare copper
Insulation Material	FEP Polyolefin
Separator Material	FEP

Dimensions

Cable Length	305 m 1000 ft
Cable Weight	26.05 lb/kft

Diameter Over Jacket, nominal	5.461 mm 0.215 in
Jacket Thickness	0.533 mm 0.021 in

Electrical Specifications

ANSI/TIA Category	6
Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	8.00 ohms/100 m
Delay Skew, maximum	45 ns
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	75 %
Operating Frequency, maximum	250 MHz
Operating Voltage, maximum	80 V
Transmission Standards	ANSI/TIA-568-C.2 CENELEC EN 50288-6-1 ISO/IEC 11801 Class E
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 NEC Article 800 NFPA 262 UL 444 UL 910
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	CommPak® box
Pairs, quantity	4
Cable Component Type	Horizontal
Jacket Color	White
Product Number	CS34P
Conductor Gauge, singles	23 AWG
Conductor Type, singles	Solid
Conductors, quantity	8
Separator Type	Tape separator

Mechanical Specifications

Pulling Tension, maximum	11 kg 25 lb
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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

CS CommScope
 Std Refers to the standard value listed under Transmission Standards in the Electrical Specifications above
 Typ Typical
 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		
	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ
1	2.0	2.0	1.8	75.3	74.3	89.3	73.3	72.3	87.6	72.3	72.3	87.0	70.3	70.3	85.3	68.0	67.8	84.3	65.0	64.8	82.4	20.0	20.0	34.0
4	3.8	3.8	3.5	66.3	65.3	80.0	62.5	61.5	76.5	63.3	63.3	77.7	59.5	59.5	74.1	56.0	55.8	72.6	53.0	52.8	70.8	23.0	23.0	33.9
8	5.3	5.3	5.0	61.8	60.8	75.5	56.4	55.4	70.5	58.8	58.8	73.2	53.4	53.4	68.2	49.9	49.7	66.8	46.9	46.7	64.9	24.5	24.5	35.5
10	6.0	6.0	5.6	60.3	59.3	73.9	54.3	53.3	68.3	57.3	57.3	71.5	51.3	51.3	65.9	48.0	47.8	64.9	45.0	44.8	63.0	25.0	25.0	36.5
16	7.6	7.6	7.2	57.2	56.2	70.6	49.7	48.7	63.4	54.2	54.2	68.3	46.7	46.7	61.1	43.9	43.7	60.8	40.9	40.7	58.9	25.0	25.0	37.6
20	8.5	8.5	8.1	55.8	54.8	69.2	47.3	46.3	61.2	52.8	52.8	66.9	44.3	44.3	58.8	42.0	41.8	58.9	39.0	38.8	56.9	25.0	25.0	38.2
25	9.5	9.5	9.0	54.3	53.3	67.6	44.8	43.8	58.6	51.3	51.3	65.3	41.8	41.8	56.2	40.0	39.8	57.0	37.0	36.8	55.0	24.3	24.3	38.2
31.25	10.7	10.7	10.1	52.9	51.9	66.3	42.2	41.2	56.1	49.9	49.9	63.9	39.2	39.2	53.8	38.1	37.9	55.0	35.1	34.9	53.0	23.6	23.6	38.3
62.5	15.4	15.4	14.5	48.4	47.4	61.4	33.0	32.0	46.9	45.4	45.4	59.0	30.0	30.0	44.5	32.1	31.9	48.9	29.1	28.9	46.9	21.5	21.5	34.7
100	19.8	19.8	18.6	45.3	44.3	58.1	25.5	24.5	39.5	42.3	42.3	55.7	22.5	22.5	37.1	28.0	27.8	44.7	25.0	24.8	42.8	20.1	20.1	31.6
155	25.2	25.2	23.5	42.4	41.4	55.7	17.3	16.3	32.2	39.4	39.4	53.0	14.3	14.3	29.5	24.2	24.0	41.0	21.2	21.0	39.0	18.8	18.8	29.6
200	29.0	29.0	26.9	40.8	39.8	52.6	11.8	10.8	25.7	37.8	37.8	50.4	8.8	8.8	23.4	22.0	21.8	38.6	19.0	18.8	36.7	18.0	18.0	29.3
250	32.8	32.8	30.3	39.3	38.3	50.8	6.5	5.5	20.5	36.3	36.3	48.6	3.5	3.5	18.3	20.0	19.8	36.5	17.0	16.8	34.7	17.3	17.3	28.8
300			33.5			49.0			15.6			46.8			13.4			34.5			32.6			28.9
350			36.4			47.6			11.2			45.4			9.0			33.0			31.0			29.0
400			39.0			46.3			7.3			44.1			5.1			31.3			29.3			30.3
500			44.3			43.2			-1.1			41.2			-3.1			27.3			25.5			31.0
550			44.6			43.1			-1.5			41.2			-3.5			27.4			25.5			31.0
650			51.3			40.2			-11.1			38.4			-12.9			22.3			20.4			25.0