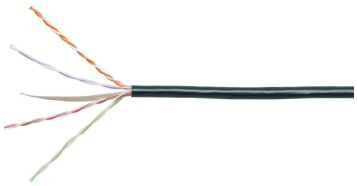
UN874019914/10 | CS34P WHT C6 4/23 U/UTP CPK 1KFT



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

Product Classification

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

General Specifications

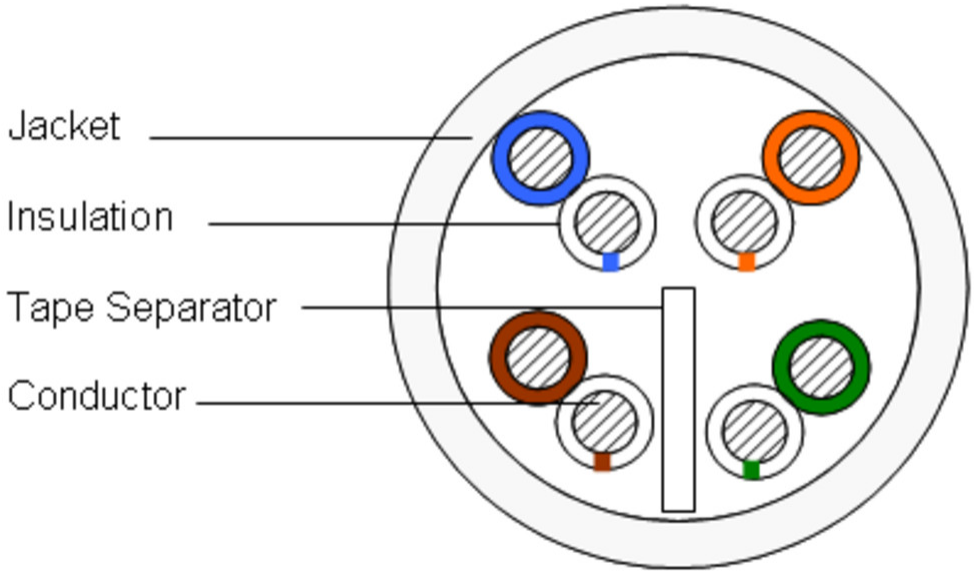
Product Number	CS34P
ANSI/TIA Category	6
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	White
Note	All electrical transmission tests include swept frequency measurements
Pairs, quantity	4
Separator Type	Tape separator
Transmission Standards	ANSI/TIA-568.2-D | CENELEC EN 50288-6-1 | ISO/IEC 11801 Class E

Dimensions

Cable Length	304.8 m | 1000 ft
Diameter Over Conductor	0.978 mm | 0.038 in
Diameter Over Jacket, nominal	5.461 mm | 0.215 in
Jacket Thickness	0.533 mm | 0.021 in
Conductor Gauge, singles	23 AWG

UN874019914/10 | CS34P WHT C6 4/23 U/UTP CPK 1KFT

Cross Section Drawing



Electrical Specifications

Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	8 ohms/100 m | 2.438 ohms/100 ft
Delay Skew, maximum	45 ns
Dielectric Strength, minimum	1500 Vac | 2500 Vdc
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
Remote Powering	Fully complies with the recommendations set forth by IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable when installed according to ISO/IEC 14763-2, CENELEC EN 50174-1, CENELEC EN 50174-2 or TIA TSB-184-A
Safety Voltage Rating	300 V

UN874019914/10 | CS34P WHT C6 4/23 U/UTP CPK 1KFT

Electrical Cable Performance

CS	CommScope
STD	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above
TYP	Typical Electrical Performance
IL	Insertion Loss (dB/100m)
ACR	Attenuation to Crosstalk Ratio (dB/100m)
PSACR	Power Sum Attenuation to Crosstalk Ratio (dB/100m)
PSACRF	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)
TCL	Transverse Conversion Loss (dB/100m)
NEXT	Near End Crosstalk (dB/100m)
PSNEXT	Power Sum Near End Crosstalk (db/100m)
ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
RL	Return Loss (dB)
ELTCTL	Equal Level Transverse Conversion Transfer Loss (dB/100m)

Freq. MHz	IL	NEXT	ACR	PSNEXT	PSACR	ACRF	PSACRF	RL
	TYP	TYP	TYP	TYP	TYP	TYP	TYP	TYP
1	1.8	89.3	87.6	87	85.3	84.3	82.4	34
4	3.5	80	76.5	77.7	74.1	72.6	70.8	33.9
8	5	75.5	70.5	73.2	68.2	66.8	64.9	35.5
10	5.6	73.9	68.3	71.5	65.9	64.9	63	36.5
16	7.2	70.6	63.4	68.3	61.1	60.8	58.9	37.6
20	8.1	69.2	61.2	66.9	58.8	58.9	56.9	38.2
25	9	67.6	58.6	65.3	56.2	57	55	38.2
31.25	10.1	66.3	56.1	63.9	53.8	55	53	38.3
62.5	14.5	61.4	46.9	59	44.5	48.9	46.9	34.7
100	18.6	58.1	39.5	55.7	37.1	44.7	42.8	31.6
155	23.5	55.7	32.2	53	29.5	41	39	29.6
200	26.9	52.6	25.7	50.4	23.4	38.6	36.7	29.3
250	30.3	50.8	20.5	48.6	18.3	36.5	34.7	28.8
300	33.5	49	15.6	46.8	13.4	34.5	32.6	28.9
350	36.4	47.6	11.2	45.4	9	33	31	29
400	39	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
550	44.6	43.1	-0.5	41.2	-2.5	27.4	25.5	31
650	51.3	40.2	-11.1	38.4	-12.9	22.3	20.4	25

Electrical Performance

UN874019914/10 | CS34P WHT C6 4/23 U/UTP CPK 1KFT

Freq (MHz)	IL (dB/100m)			NEXT (dB/100m)			ACR (dB/100m)			PSNEXT (dB/100m)			PSACR (dB/100m)			ACRF (dB/100m)			PSACRF (dB/100m)			RL (dB)		
	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

CS = CommScope | Std = Standard value listed under Transmission Standards in the Electrical Specifications | Typ = Typical

Material Specifications

Conductor Material Bare copper

Insulation Material FEP | Polyolefin

Jacket Material PVC

Separator Material FEP

Mechanical Specifications

Pulling Tension, maximum 11.34 kg | 25 lb

Environmental Specifications

Installation temperature 0 °C to +60 °C (+32 °F to +140 °F)

Operating Temperature -20 °C to +60 °C (-4 °F to +140 °F)

Environmental Space Plenum

Flame Test Method CMP/FT6 | NEC Article 800 | NFPA 262 | UL 444 | UL 910

Smoke Test Method CMP/FT6

Packaging and Weights

Cable weight 38.395 kg/km | 25.8 lb/kft

Packaging Type CommPak® box

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value

UN874019914/10 | CS34P WHT C6 4/23 U/UTP CPK 1KFT

ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant