

CS44P ETL Verified Category 6A U/UTP Cable, plenum, black jacket, 4 pair count, 1000 ft (305 m) length reel

Product Classification

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

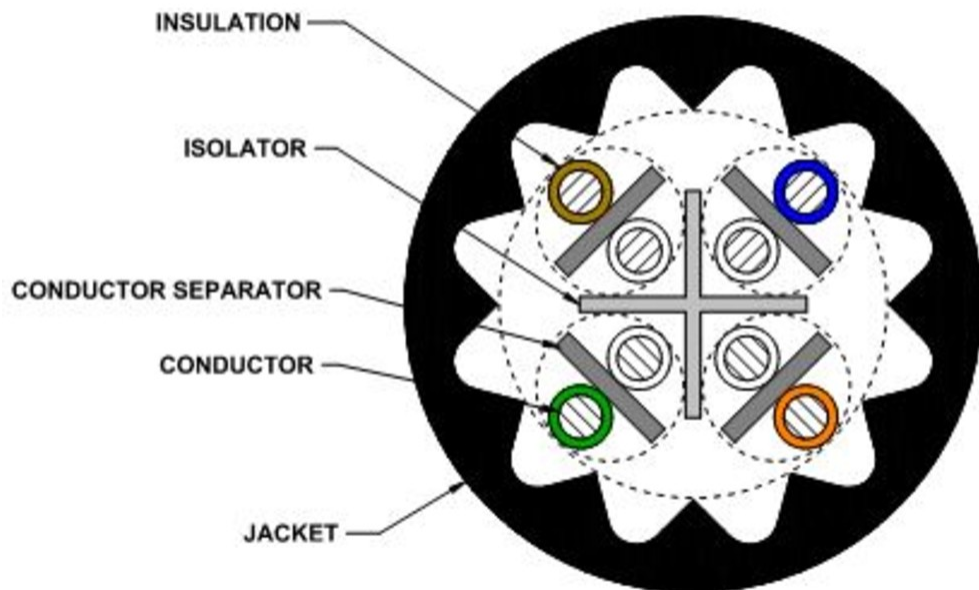
General Specifications

Product Number	CS44P
ANSI/TIA Category	6A
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	Black
Note	Consult ANSI/TIA-568-C.2 Annex G for length de-rating guidance for cable installation in higher temperature environments
Pairs, quantity	4
Separator Type	Bisector
Transmission Standards	ANSI/TIA-568.2-D ISO/IEC 11801 Class EA

Dimensions

Cable Length	304.8 m 1000 ft
Diameter Over Conductor	0.889 mm 0.035 in
Diameter Over Jacket, nominal	7.239 mm 0.285 in
Jacket Thickness	1.295 mm 0.051 in
Conductor Gauge, singles	23 AWG

Cross Section Drawing



Electrical Specifications

dc Resistance Unbalance, maximum	4 %
dc Resistance, maximum	7.61 ohms/100 m 2.32 ohms/100 ft
Dielectric Strength, minimum	1500 Vac 2500 Vdc
LP (Limited Power) Rating	0.6 A
Mutual Capacitance at Frequency	6.0 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	66 %
Operating Frequency, maximum	500 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

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)	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)
TCL	Transverse Conversion Loss (dB/100m)	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	90.6	88.8	88.3	86.5	82.1	80.3	32.2
4	3.6	82.4	78.8	80.2	76.6	70.1	68.4	33.9
8	5.1	77.6	72.5	75.8	70.7	64.1	62.3	36.7
10	5.7	76.4	70.7	74.4	68.7	62.2	60.4	37.7
16	7.3	73.1	65.9	71.3	64	58.2	56.4	38.7
20	8.1	71.5	63.4	69.7	61.6	56.4	54.5	38.7
25	9.1	70.2	61.1	68.3	59.2	54.5	52.6	35.5
31.25	10.2	68.6	58.4	66.7	56.5	52.7	50.7	37.2
62.5	14.6	64.2	49.6	62.3	47.7	46.6	44.7	34.6
100	18.6	60.8	42.1	59	40.3	42.5	40.5	30.3
155	23.4	58.4	35	56.4	33	38.9	37	30.8
200	26.8	56	29.2	54.2	27.4	36.6	34.6	30
250	30.1	54.3	24.2	52.5	22.3	34.6	32.6	30.5
300	33.1	53.1	19.9	51.2	18.1	33.1	31.2	31.1
350	36	51.8	15.8	49.9	13.9	31.9	29.9	31.7
400	38.8	50.8	12	48.8	10	30.6	28.6	31.5
500	43.6	47.9	4.3	45.8	2.2	28.7	26.7	32
550	43.8	48	4.1	45.9	2	28.6	26.7	31.9
650	50.2	43.5	-6.7	41.5	-8.8	25.7	23.5	25.3

Electrical Performance

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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)	
	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ
1	2.1	1.8	74.3	90.6	72.2	88.8	72.3	88.3	70.2	86.5	67.8	82.1	64.8	80.3	20.0	32.2
4	3.8	3.6	65.3	82.4	61.5	78.8	63.3	80.2	59.5	76.6	55.8	70.1	52.8	68.4	23.0	33.9
8	5.3	5.1	60.8	77.6	55.4	72.5	58.8	75.8	53.4	70.7	49.7	64.1	46.7	62.3	24.5	36.7
10	5.9	5.7	59.3	76.4	53.4	70.7	57.3	74.4	51.4	68.7	47.8	62.2	44.8	60.4	25.0	37.7
16	7.5	7.3	56.2	73.1	48.8	65.9	54.2	71.3	46.8	64.0	43.7	58.2	40.7	56.4	25.0	38.7
20	8.4	8.1	54.8	71.5	46.4	63.4	52.8	69.7	44.4	61.6	41.8	56.4	38.8	54.5	25.0	38.7
25	9.4	9.1	53.3	70.2	44.0	61.1	51.3	68.3	42.0	59.2	39.8	54.5	36.8	52.6	24.3	35.5
31.25	10.5	10.2	51.9	68.6	41.4	58.4	49.9	66.7	39.4	56.5	37.9	52.7	34.9	50.7	23.6	37.2
62.5	15.0	14.6	47.4	64.2	32.4	49.6	45.4	62.3	30.4	47.7	31.9	46.6	28.9	44.7	21.5	34.6
100	19.1	18.6	44.3	60.8	25.2	42.1	42.3	59.0	23.2	40.3	27.8	42.5	24.8	40.5	20.1	30.3
155	24.1	23.4	41.4	58.4	17.4	35.0	39.4	56.4	15.4	33.0	24.0	38.9	21.0	37.0	18.8	30.8
200	27.6	26.8	39.8	56.0	12.2	29.2	37.8	54.2	10.2	27.4	21.8	36.6	18.8	34.6	18.0	30.0
250	31.1	30.1	38.3	54.3	7.3	24.2	36.3	52.5	5.3	22.3	19.8	34.6	16.8	32.6	17.3	30.5
300	34.3	33.1	37.1	53.1	2.9	19.9	35.1	51.2	0.9	18.1	18.3	33.1	15.3	31.2	16.8	31.1
350	37.2	36.0	36.1	51.8	-1.1	15.8	34.1	49.9	-3.1	13.9	16.9	31.9	13.9	29.9	16.3	31.7
400	40.1	38.8	35.3	50.8	-4.8	12.0	33.3	48.8	-6.8	10.0	15.8	30.6	12.8	28.6	15.9	31.5
500	45.3	43.6	33.8	47.9	-11.4	4.3	31.8	45.8	-13.4	2.2	13.8	28.7	10.8	26.7	15.2	32.0
550		43.8		48.0		4.1		45.9		2.0		28.6		26.7		31.9
650		50.2		43.5		-6.7		41.5		-8.8		25.7		23.5		25.3

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

Material Specifications

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

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 +75 °C (-4 °F to +167 °F)
Environmental Space	Plenum
Temperature Rating, ETL	105 °C 221 °F
Flame Test Method	CMP/FT6 NEC Article 800 NFPA 262 UL 444 UL 910
Smoke Test Method	CMP/FT6

Packaging and Weights

Cable weight	63.098 kg/km 42.4 lb/kft
Packaging Type	Reel

Regulatory Compliance/Certifications

Agency	Classification
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UN874021404/10 | CS44P BLK C6A 4/23 U/UTP RL 1KFT

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

