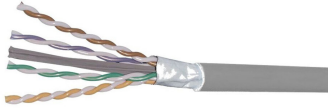


# UN874024014/10 | CS44PSD GRY C6A 4/23 U /UTP CPK 1KFT



CS44PSD ETL verified Category 6A U/UTP Cable, plenum, gray jacket, 4 pair count, 1000 ft (305 m) length, Commpak Box

## Product Classification

<b>Regional Availability</b>	North America
<b>Portfolio</b>	Uniprise®
<b>Product Type</b>	Twisted pair cable

## General Specifications

<b>Product Number</b>	CS44PSD
<b>ANSI/TIA Category</b>	6A
<b>Cable Component Type</b>	Horizontal
<b>Cable Type</b>	U/UTP (unshielded)
<b>Conductor Type, singles</b>	Solid
<b>Conductors, quantity</b>	8
<b>Jacket Color</b>	Gray
<b>Note</b>	Consult ANSI/TIA-568-C.2 Annex G for length de-rating guidance for cable installation in higher temperature environments
<b>Pairs, quantity</b>	4
<b>Separator Type</b>	Isolator
<b>Transmission Standards</b>	ANSI/TIA-568.2-D

## Dimensions

<b>Cable Length</b>	304.8 m   1000 ft
<b>Diameter Over Insulated Conductor</b>	1.115 mm   0.044 in
<b>Diameter Over Jacket, nominal</b>	6.325 mm   0.249 in
<b>Jacket Thickness</b>	0.406 mm   0.016 in
<b>Conductor Gauge, singles</b>	23 AWG

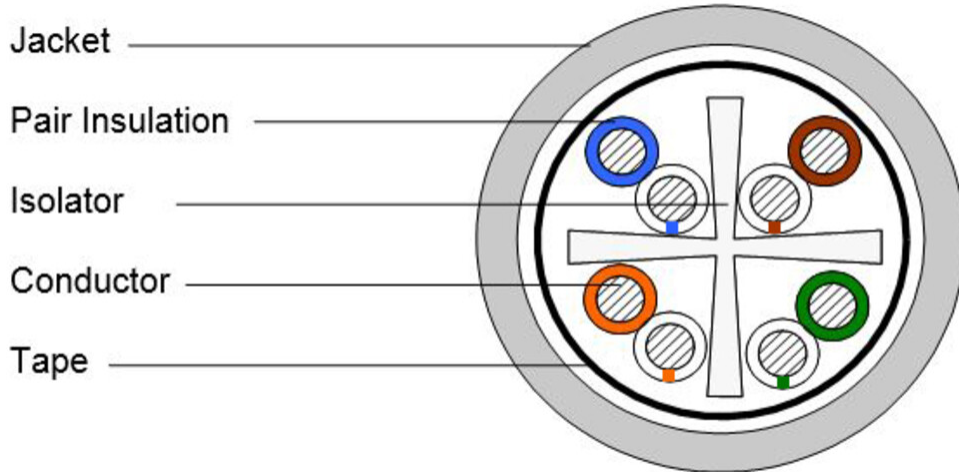
## Electrical Specifications

<b>dc Resistance Unbalance, maximum</b>	4 %
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# UN874024014/10 | CS44PSD GRY C6A 4/23 U /UTP CPK 1KFT

<b>dc Resistance, maximum</b>	8 ohms/100 m   2.438 ohms/100 ft
<b>Dielectric Strength, minimum</b>	1500 Vac   2500 Vdc
<b>LP (Limited Power) Rating</b>	0.7 A
<b>Mutual Capacitance at Frequency</b>	5.6 nF/100 m @ 1 kHz
<b>Nominal Velocity of Propagation (NVP)</b>	70 %
<b>Operating Frequency, maximum</b>	500 MHz
<b>Operating Voltage, maximum</b>	80 V
<b>Remote Powering</b>	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

## Representative Image



## Electrical Cable Performance

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

Freq. MHz	IL		NEXT		ACR		PSNEXT		PSACR		ACRF		PSACRF		RL	
	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP
1	2.1	1.9	74.3	88	72.2	86.1	72.3	86	70.2	84.1	67.8	89.1	64.8	86.9	20	32.6
4	3.8	3.5	65.3	77.8	61.5	74.3	63.3	75.8	59.5	72.4	55.8	77.9	52.8	76.1	23	33.6
8	5.3	4.8	60.8	73	55.4	68.2	58.8	71.1	53.4	66.3	49.7	72.2	46.7	70.3	24.5	34.1
10	5.9	5.4	59.3	71.7	53.4	66.3	57.3	69.4	51.4	64	47.8	70.3	44.8	68.3	25	34.6
16	7.5	7.1	56.2	68.2	48.8	61.2	54.2	66.3	46.8	59.2	43.7	66.1	40.7	64.1	25	37.5
20	8.4	7.9	54.8	66.5	46.4	58.5	52.8	64.4	44.4	56.5	41.8	64.3	38.8	62.3	25	36.3
25	9.4	8.9	53.3	65.3	44	56.4	51.3	63.3	42	54.4	39.8	62.4	36.8	60.5	24.3	34.4
31.25	10.5	10	51.9	63.2	41.4	53.2	49.9	61.4	39.4	51.4	37.9	60.3	34.9	58.5	23.6	34.1
62.5	15	14.2	47.4	58.8	32.4	44.6	45.4	56.8	30.4	42.6	31.9	54.3	28.9	52.1	21.5	32
100	19.1	18.1	44.3	55.7	25.2	37.6	42.3	53.7	23.2	35.6	27.8	50.5	24.8	48.2	20.1	28.3
155	24.1	22.6	41.4	52.7	17.4	30.1	39.4	50.8	15.4	28.2	24	46.9	21	44.8	18.8	25
200	27.6	25.8	39.8	50.3	12.2	24.5	37.8	48.4	10.2	22.6	21.8	44.6	18.8	42.3	18	22.9
250	31.1	29	38.3	49.1	7.3	20.1	36.3	47.1	5.3	18.1	19.8	42.6	16.8	40.4	17.3	21.2
300	34.3	31.9	37.1	47.8	2.9	16	35.1	45.9	0.9	14	18.3	40.2	15.3	38.1	16.8	19.9
350	37.2	34.8	36.1	46.3	-1.1	11.5	34.1	44.3	-3.1	9.5	16.9	39.4	13.9	37.3	16.3	18.8
400	40.1	37.4	35.3	45.4	-4.8	8	33.3	43.3	-6.8	5.9	15.8	37.1	12.8	34.8	15.9	17.9
450	42.7	39.6	34.5	44.2	-8.2	4.6	32.5	42	-10.2	2.5	14.7	36	11.7	33.8	15.5	17.2
500	45.3	41.8	33.8	42	-11.4	0.3	31.8	40	-13.4	-1.7	13.8	36.2	10.8	34.1	15.2	16.9
550		44.3		39.5		-4.9		37.8		-6.5		34.4		32.3		16.1
600		46.9		35.7		-11.2		34.6		-12.2		32.9		30.6		16
650		48.9		32		-16.9		31.4		-17.5		30.6		28.3		16

## Material Specifications

<b>Conductor Material</b>	Bare copper
<b>Insulation Material</b>	FEP
<b>Jacket Material</b>	PVC
<b>Separator Material</b>	FEP
<b>Tape Material</b>	Poly/Aluminum/Poly

## Mechanical Specifications

**Pulling Tension, maximum** 11.34 kg | 25 lb

# UN874024014/10 | CS44PSD GRY C6A 4/23 U /UTP CPK 1KFT

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## Environmental Specifications

<b>Installation temperature</b>	0 °C to +60 °C (+32 °F to +140 °F)
<b>Operating Temperature</b>	-20 °C to +75 °C (-4 °F to +167 °F)
<b>Environmental Space</b>	Plenum
<b>Temperature Rating, UL</b>	105 °C   221 °F
<b>Flame Test Method</b>	CMP/FT6
<b>Smoke Test Method</b>	CMP/FT6

## Packaging and Weights

<b>Cable weight</b>	58.038 kg/km   39 lb/kft
<b>Packaging Type</b>	CommPak® box