UN874037104/10 | CS44PSD WHT C6A 4/23 U /UTP RL 1KFT



CS44PSD ETL verified Category 6A U/UTP Cable, plenum, White 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	2091SDB
ANSI/TIA Category	6A
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	White
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	Isolator
Transmission Standards	ANSI/TIA-568.2-D

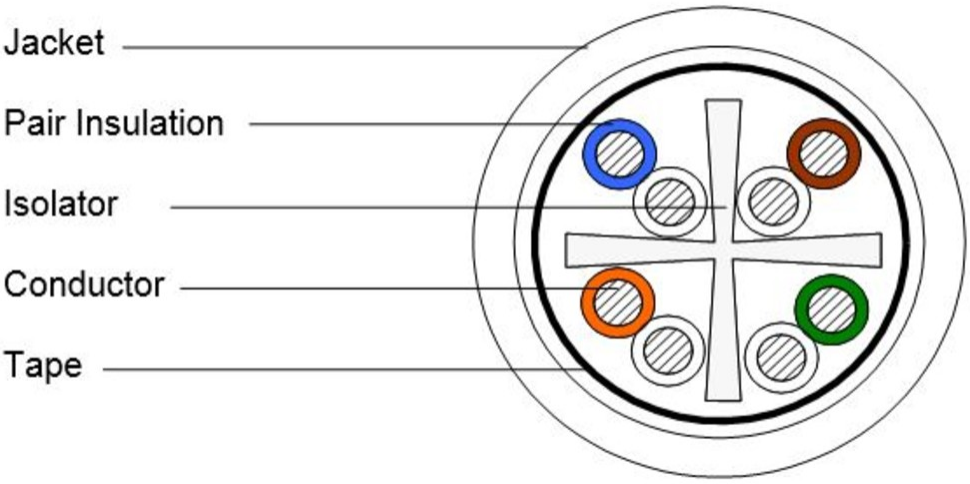
Dimensions

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

Cross Section Drawing

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Electrical Specifications

dc Resistance Unbalance, maximum	4 %
dc Resistance, maximum	8 ohms/100 m | 2.438 ohms/100 ft
Dielectric Strength, minimum	1500 Vac | 2500 Vdc
LP (Limited Power) Rating	0.7 A
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	70 %
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

Electrical Performance

CS
CommScope value

Std
Sandard value

(listed under the Transmission Standards in the Electrical Specifications above)

Typ
Typical value

IL
Insertion Loss (dB/100m)

RL
Return Loss (dB)

NEXT
Near End Crosstalk (dB/100m)

PSNEXT
Power Sum Near End Crosstalk (dB/100m)

ACR
Attenuation to Crosstalk Ratio (dB/100m)

ACRF
Attenuation to Crosstalk Ratio - Far End (dB/100m)

PSACR
Power Sum Attenuation to Crosstalk Ratio (dB/100m)

PSACRF
Insertion Loss (dB/100m)

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

Material Specifications

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

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, UL	105 °C | 221 °F
Flame Test Method	CMP/FT6
Smoke Test Method	CMP/FT6

Packaging and Weights

Cable weight	58.038 kg/km | 39 lb/kft
Packaging Type	Reel

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