884023614/10 | CS27R WHT C5E 4/24 U/UTP CPK 1KFT



ETL Verified Category 5e U/UTP Cable, non-plenum, white jacket, 4 pair count, 1000 ft (305 m) length, CommPak

Product Classification

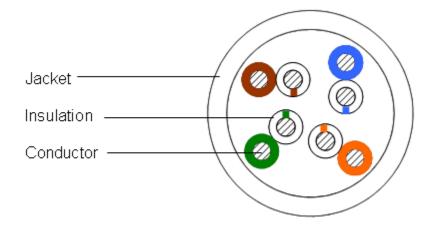
Regional Availability	Asia Australia/New Zealand Latin America North America
Portfolio	CommScope®
Product Type	Twisted pair cable
General Specifications	
Product Number	CS27R
ANSI/TIA Category	5e
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	White
Note	All electrical transmission tests include swept frequency measurements
Pairs, quantity	4
Transmission Standards	ANSI/TIA-568.2-D CENELEC EN 50288-3-1 ISO/IEC 11801 Class D
Dimensions	
Cable Length	304.8 m 1000 ft
Diameter Over Jacket, nominal	4.953 mm 0.195 in
Jacket Thickness	0.508 mm 0.02 in
Conductor Gauge, singles	24 AWG

Cross Section Drawing

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Electrical Specifications

Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	9.38 ohms/100 m 2.859 ohms/100 ft
Delay Skew, maximum	15 ns
Dielectric Strength, minimum	1500 Vac 2500 Vdc
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	69 %
Operating Frequency, maximum	350 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

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Electrical Cable Performance

CS	CommScope									
STD	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above									
ТҮР	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.	L			NEXT			ACR			PSNEXT		PSACR		ACRF			PSACRF			RL				
MHz	cs	STD	түр	cs	STD	түр	cs	STD	түр	cs	STD	түр	cs	STD	түр	cs	STD	түр	cs	STD	түр	cs	STD	түр
1	2	2	1.8	70.3	65.3	85	68.3	63.3	83.1	68.3	62.3	82.6	66.3	60.3	80.8	67.8	63.8	79.8	65.8	60.8	78	20	20	34.8
4	3.9	4.1	3.7	61.3	56.3	75.9	57.3	52.2	72.2	59.3	53.3	73.4	55.3	49.2	69.7	55.8	51.8	68.1	53.8	48.8	66.3	23.3	23	35.1
8	5.6	5.8	5.3	56.8	51.8	70.8	51.2	46	65.6	54.8	48.8	68.5	49.2	43	63.3	49.7	45.7	62.2	47.7	42.7	60.5	25	24.5	35.9
10	6.2	6.5	5.9	55.3	50.3	69.7	49.1	43.8	63.8	53.3	47.3	67.4	47.1	40.8	61.5	47.8	43.8	60.3	45.8	40.8	58.5	25.5	25	36.8
16	7.9	8.2	7.6	52.2	47.2	66.3	44.3	39	58.7	50.2	44.2	64	42.3	36	56.4	43.7	39.7	56.3	41.7	36.7	54.5	25.5	25	37.9
20	8.9	9.3	8.5	50.8	45.8	64.8	41.9	36.5	56.3	48.8	42.8	62.4	39.9	33.5	53.9	41.8	37.8	54.4	39.8	34.8	52.5	25.5	25	37.6
25	10	10.4	9.5	49.3	44.3	63.3	39.3	33.9	53.8	47.3	41.3	61	37.3	30.9	51.5	39.8	35.8	52.5	37.8	32.8	50.6	24.8	24.3	37.9
31.25	11.3	11.7	10.7	47.9	42.9	61.8	36.6	31.2	51.2	45.9	39.9	59.5	34.6	28.2	48.9	37.9	33.9	50.5	35.9	30.9	48.6	24.1	23.6	37.7
62.5	16.3	17	15.3	43.4	38.4	57.3	27.1	21.4	42	41.4	35.4	55.1	25.1	18.4	39.7	31.9	27.9	44.4	29.9	24.9	42.5	22	21.5	33.5
100	21	22	19.6	40.3	35.3	54.5	19.3	13.3	34.9	38.3	32.3	52.1	17.3	10.3	32.5	27.8	23.8	40.4	25.8	20.8	38.4	20.6	20.1	31
155	26.8		24.8	37.4		51.2	10.7		26.4	35.4		49	8.7		24.1	24		36.7	22		34.7	19.3		28.9
200	30.9		28.4	35.8		48.9	4.9		20.4	33.8		46.6	2.9		18.2	21.8		34.2	19.8		32.2	18.5		28.6
250	35		32	34.3		47.4	-0.7		15.4	32.3		45.1	-2.7		13.1	19.8		32	17.8		30	17.8		28
300	38.9		35.3	33.1		45.8	-5.8		10.5	31.1		43.5	-7.8		8.2	18.3		30.1	16.3		28.2	17.3		28.1
350	42.6		38.4	32.1		44.1	-10.4		5.7	30.1		41.9	-12.4		3.5	16.9		28.4	14.9		26.5	16.8		27.4

Material Specifications

Conductor Material	Bare copper						
Insulation Material	Polyolefin						
Jacket Material	PVC						
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	Non-plenum						
Flame Test Method	CMR NEC Article 800 UL 1666 UL 444						

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Packaging and Weights

Cable weight

Packaging Type

27.977 kg/km | 18.8 lb/kft

CommPak® box

Regulatory Compliance/Certifications

Classification

Agency

ISO 9001:2015

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



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