# 874038884/30 | CS27P GRY C5E 4/24 U/UTP RL 3KFT

ETL Verified Category 5e U/UTP Cable, plenum, gray jacket, 4 pair count, 3000 ft (914 m) length, reel

### Product Classification

Regional Availability	Asia   Australia/New Zealand   Latin America   North America
Portfolio	CommScope®
Product Type	Twisted pair cable
General Specifications	
Product Number	CS27P
ANSI/TIA Category	5e
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	Gray
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	914.4 m   3000 ft
Cable Length Tolerance	±5%
Diameter Over Jacket, nominal	4.877 mm   0.192 in
Jacket Thickness	0.508 mm   0.02 in
Conductor Gauge, singles	24 AWG

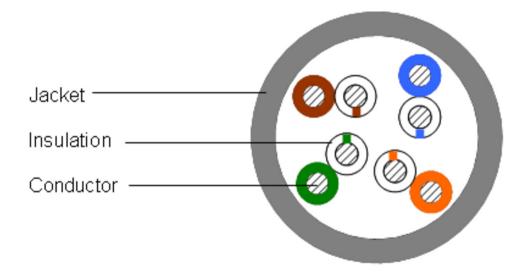
## Cross Section Drawing

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COMMSCOPE®

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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)	76 %
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 Comm	Scope		
STD Refers	to the standard value listed under Transmission Standards in the Ele	ctrical Specificatio	ns above
TYP Typica	Electrical Performance		
IL Insertio	on Loss (dB/100m)	NEXT	Near End Crosstalk (dB/100m)
ACR Attenu	ation 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 Transv	erse Conversion Loss (dB/100m)	ELTCTL	Equal Level Transverse Conversion Transfer Loss (dB/100m)

Freq.				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	1.9	67.3	65.3	81.9	65.3	63.3	80	64.3	62.3	79.5	62.3	60.3	77.6	65.8	63.8	75.7	62.8	60.8	74	20	20	33.9
4	4	4.1	3.9	58.3	56.3	72.6	54.3	52.2	68.7	55.3	53.3	70.3	51.3	49.2	66.5	53.8	51.8	64.2	50.8	48.8	62.6	23.3	23	30.2
8	5.7	5.8	5.5	53.8	51.8	67.9	48	46	62.4	50.8	48.8	65.5	45	43	59.9	47.7	45.7	58.6	44.7	42.7	56.9	25	24.5	34
10	6.4	6.5	6.2	52.3	50.3	66.4	45.9	43.8	60.2	49.3	47.3	63.9	42.9	40.8	57.7	45.8	43.8	56.6	42.8	40.8	54.9	25.5	25	37.1
16	8.2	8.2	7.9	49.2	47.2	63.1	41.1	39	55.2	46.2	44.2	60.8	38.1	36	52.9	41.7	39.7	52.5	38.7	36.7	50.9	25.5	25	36.4
20	9.2	9.3	8.9	47.8	45.8	61.7	38.6	36.5	52.9	44.8	42.8	59.4	35.6	33.5	50.5	39.8	37.8	50.6	36.8	34.8	48.9	25.5	25	37.1
25	10.3	10.4	9.9	46.3	44.3	60.2	36	33.9	50.3	43.3	41.3	57.9	33	30.9	48	37.8	35.8	48.6	34.8	32.8	46.9	24.8	24.3	36.4
31.25	11.6	11.7	11.1	44.9	42.9	58.2	33.3	31.2	47.1	41.9	39.9	55.9	30.3	28.2	44.8	35.9	33.9	46.7	32.9	30.9	45	24.1	23.6	36.8
62.5	16.8	17	15.9	40.4	38.4	53.8	23.5	21.4	37.8	37.4	35.4	51.5	20.5	18.4	35.6	29.9	27.9	40.8	26.9	24.9	39.1	22	21.5	32.4
100	21.8	22	20.4	37.3	35.3	49.6	15.3	13.3	29.3	34.3	32.3	47.4	12.5	10.3	27	25.8	23.8	37	22.8	20.8	35.1	20.6	20.1	28.5
155	27.8		25.6	34.4		46.2	6.7		20.6	31.4		43.9	3.7		18.3	22		32.8	19		31.2	19.3		27.1
200	32.1		29.3	32.8		44.9	0.7		15.7	29.8		42.7	-2.3		13.4	19.8		30.7	16.8		29	18.5		26.2
250	36.5		33	31.3		43.4	-5.2		10.4	28.3		41.1	-8.2		8.1	17.8		28.7	14.8		26.9	17.8		25.2
300	40.6		36.2	30.1		41.1	-10.4		4.9	27.1		38.9	-13.4		2.7	16.3		27	13.3		25.3	17.3		25.7
350	44.4		39.3	29.1		39.7	-15.3		0.4	26.1		37.4	-18.3		-1.9	14.9		25.2	11.9		23.4	16.8		26.3

### Material Specifications

Conductor Material	Bare copper
Insulation Material	FEP   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

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

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### **Smoke Test Method**

CMP/FT6

### Packaging and Weights

Cable weight

30.373 kg/km | 20.41 lb/kft

Packaging Type

Reel

### Regulatory Compliance/Certifications

Classification

### Agency

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

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