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, singlesSolidConductors, quantity8Jacket ColorGray

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%

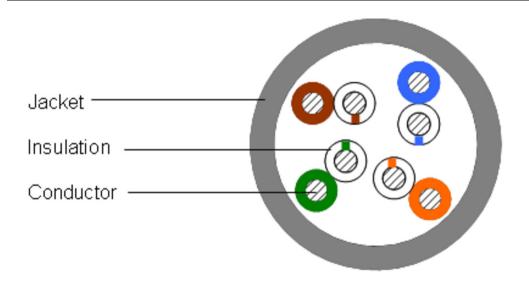
Diameter Over Jacket, nominal4.877 mm | 0.192 inJacket Thickness0.508 mm | 0.02 in

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, minimum1500 Vac | 2500 VdcMutual Capacitance at Frequency5.6 nF/100 m @ 1 kHz

Nominal Velocity of Propagation (NVP) 76 %

Operating Frequency, maximum 350 MHz

Operating Voltage, maximum 80 V

Remote PoweringFully 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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Flectrical 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		
	cs	STD	TYP	cs	STD	TYP	cs	STD	TYP	cs	STD	TYP	cs	STD	TYP	cs	STD	TYP	cs	STD	TYP	cs	STD	TYP
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 $0 \, ^{\circ}\text{C} \text{ to } +60 \, ^{\circ}\text{C} \text{ (+32 } ^{\circ}\text{F to } +140 \, ^{\circ}\text{F)}$ Operating Temperature $-20 \, ^{\circ}\text{C} \text{ to } +60 \, ^{\circ}\text{C} \text{ (-4 } ^{\circ}\text{F to } +140 \, ^{\circ}\text{F)}$

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

Agency Classification

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

