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

Product Classification

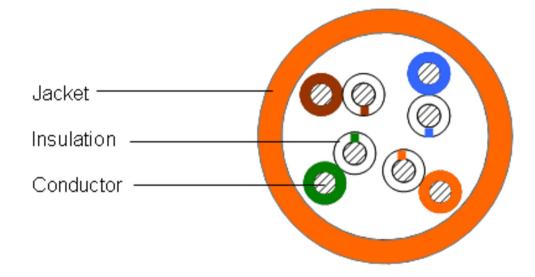
Regional Availability	Asia Australia/New Zealand Latin America North America
Portfolio	CommScope®
Product Type	Twisted pair cable
General Specifications	
Product Number	CS27P
ANSI/TIA Category	5e
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	Orange
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	4.877 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°



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	CommScope		
STD	Refers to the standard value listed under Transmission Standards in th	e Electrical Specificat	tions 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.				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

CommPak® box

Regulatory Compliance/Certifications

Agency

Classification

ISO 9001:2015

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

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