ETL Verified Category 5e U/UTP Cable, plenum, violet 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 TypeTwisted pair cable

General Specifications

Product Number CS24P
ANSI/TIA Category 5e

Cable Component Type Horizontal

Cable Type U/UTP (unshielded)

Conductor Type, singles Solid
Conductors, quantity 8

Jacket Color Violet

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

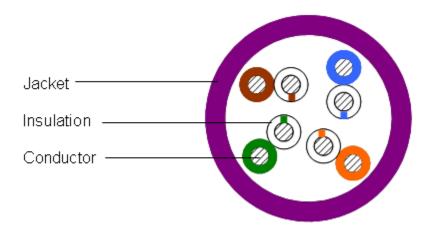
 Diameter Over Jacket, nominal
 4.877 mm | 0.192 in

 Jacket Thickness
 0.508 mm | 0.02 in

Conductor Gauge, singles 24 AWG

Cross Section Drawing





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, maximum200 MHzOperating Voltage, maximum80 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

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	2.1	65.3	65.3	81.5	63.3	63.3	79.4	62.3	62.3	79.2	60.3	60.3	77.1	63.8	63.8	76.4	60.8	60.8	74.7	20	20	33.5
4	4.1	4.1	3.9	56.3	56.3	72.9	52.2	52.2	69	53.3	53.3	70.5	49.2	49.2	66.6	51.8	51.8	64.8	48.8	48.8	63.1	23	23	33.5
8	5.8	5.8	5.5	51.8	51.8	68.3	46	46	62.7	48.8	48.8	65.9	43	43	60.4	45.7	45.7	58.9	42.7	42.7	57.2	24.5	24.5	36.6
10	6.5	6.5	6.2	50.3	50.3	66.7	43.8	43.8	60.6	47.3	47.3	64.2	40.8	40.8	58.1	43.8	43.8	57	40.8	40.8	55.3	25	25	36.7
16	8.2	8.2	7.8	47.2	47.2	63.6	39	39	55.8	44.2	44.2	61.2	36	36	53.4	39.7	39.7	52.9	36.7	36.7	51.1	25	25	38.5
20	9.3	9.3	8.7	45.8	45.8	62	36.5	36.5	53.2	42.8	42.8	59.5	33.5	33.5	50.8	37.8	37.8	51	34.8	34.8	49.2	25	25	38.8
25	10.4	10.4	9.8	44.3	44.3	60.3	33.9	33.9	50.5	41.3	41.3	57.9	30.9	30.9	48.2	35.8	35.8	48.9	32.8	32.8	47.2	24.3	24.3	39.4
31.25	11.7	11.7	11	42.9	42.9	58.9	31.2	31.2	47.9	39.9	39.9	56.6	28.2	28.2	45.7	33.9	33.9	47	30.9	30.9	45.2	23.6	23.6	39.8
62.5	17	17	15.6	38.4	38.4	54.2	21.4	21.4	38.6	35.4	35.4	51.9	18.4	18.4	36.2	27.9	27.9	40.8	24.9	24.9	39	21.5	21.5	34.7
100	22	22	20	35.3	35.3	50.9	13.3	13.3	30.9	32.3	32.3	48.6	10.3	10.3	28.6	23.8	23.8	36.9	20.8	20.8	35.1	20.1	20.1	30.9
155	28.1		25.1	32.4		47.8	4.4		22.7	29.4		45.3	1.4		20.2	20		33.1	17		31.3	18.8		28.3
200	32.4		28.8	30.8		45.6	-1.6		16.8	27.8		43.3	-4.6		14.5	17.8		30.7	14.8		28.8	18		27.6
250			32.4			43.7			11.3			41.4			9.1			28.7			26.8			26.9
300			35.7			42			6.3			39.7			4			27			25.1			26.5
350			38.9			40.5			1.6			38.3			-0.6			25.2			23.3			25.6

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 CommPak® box

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

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

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



