874032384/30 | CS24P BLU C5E 4/24 U/UTP RL 3KFT

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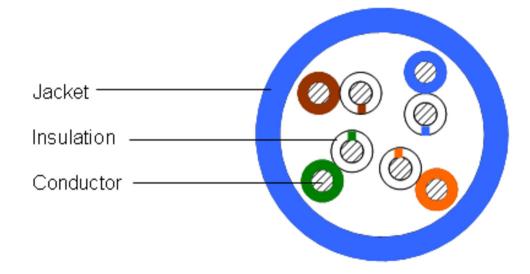
Product Classification

Regional Availability	Asia	Australia/New Zealand	EMEA	Latin America	North America
Portfolio	CommScope®
Product Type	Twisted 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	Blue
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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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	200 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		
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 °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

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

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