884026414/10 | CS24R ORG C5E 4/24 U/UTP CPK 1KFT

ETL Verified Category 5e U/UTP Cable, non-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	CS24R
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	4.953 mm 0.195 in
Jacket Thickness	0.508 mm 0.02 in
Conductor Gauge, singles	24 AWG

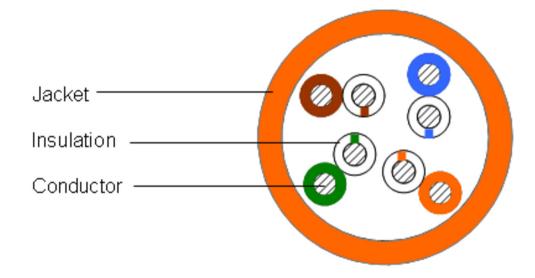
Cross Section Drawing

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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)	69 %
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 Con	nmScope		
STD Refe	ers to the standard value listed under Transmission Standards in the Elec	trical Specificatior	ns above
ТҮР Турі	ical Electrical Performance		
IL Inse	ertion Loss (dB/100m)	NEXT	Near End Crosstalk (dB/100m)
ACR Atte	enuation to Crosstalk Ratio (dB/100m)	PSNEXT	Power Sum Near End Crosstalk (db/100m)
PSACR Pow	ver Sum Attenuation to Crosstalk Ratio (dB/100m)	ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
PSACRF Pow	ver Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)	RL	Return Loss (dB)
TCL Trar	nsverse 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	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	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	Non-plenum
Flame Test Method	CMR NEC Article 800 UL 1666 UL 444

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Packaging and Weights

Cable weight

Packaging Type

27.977 kg/km | 18.8 lb/kft

CommPak® box

Regulatory Compliance/Certifications

Classification

ISO 9001:2015

Agency

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

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