# 884025484/30 | CS24R GRY C5E 4/24 F/UTP RL 3KFT



Category 5e F/UTP Cable, non-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	CS24R
ANSI/TIA Category	5e
Cable Component Type	Horizontal
Cable Type	F/UTP (shielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Drain Wire Type	Solid
Jacket Color	Gray
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
Diameter Over Jacket, nominal	6.147 mm   0.242 in
Jacket Thickness	0.508 mm   0.02 in
Conductor Gauge, singles	24 AWG
Drain Wire Gauge	26 AWG

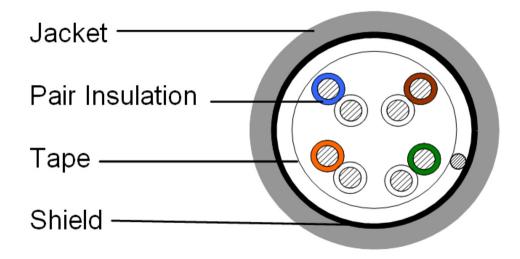
## Cross Section Drawing

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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	100 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					
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.		L	NEXT		ACR		PSNEXT		PSACR		ACRF		PSACRF		RL	
MHz	STD	түр	STD	түр	STD	түр	STD	түр	STD	түр	STD	түр	STD	түр	STD	түр
1	2	1.9	65.3	83.1	63.3	81.2	62.3	80.8	60.3	78.9	63.8	84.4	60.8	82.4	20	33
4	4.1	3.7	56.3	73.4	52.2	69.8	53.3	71.3	49.2	67.6	51.8	73.3	48.8	71.4	23	30.6
8	5.8	5.2	51.8	69	46	63.9	48.8	67	43	61.8	45.7	67.4	42.7	65.5	24.5	31.5
10	6.5	5.8	50.3	67.2	43.8	61.4	47.3	65.1	40.8	59.3	43.8	65.4	40.8	63.5	25	32.4
16	8.2	7.4	47.2	64.1	39	56.8	44.2	62	36	54.7	39.7	61.3	36.7	59.4	25	31.8
20	9.3	8.2	45.8	62.6	36.5	54.4	42.8	60.5	33.5	52.2	37.8	59.4	34.8	57.4	25	33
25	10.4	9.2	44.3	60.9	33.9	51.6	41.3	58.8	30.9	49.6	35.8	57.6	32.8	55.5	24.3	33.1
31.25	11.7	10.3	42.9	59.6	31.2	49.2	39.9	57.4	28.2	47.1	33.9	55.6	30.9	53.5	23.6	33.4
62.5	17	14.7	38.4	54.4	21.4	39.8	35.4	52.4	18.4	37.7	27.9	49.5	24.9	47.4	21.5	32.9
100	22	18.6	35.3	51	13.3	32.4	32.3	48.9	10.3	30.2	23.8	45.5	20.8	43.3	20.1	29.9
155		23.4		46.9		23.5		45.1		21.7		41.3		39.3		28
200		26.7		45.1		18.4		43.2		16.5		39.1		37		26
250		29.9		44.8		14.9		42.7		12.8		37.1		35.1		25.1
300		32.9		43		10.1		40.9		8		35.6		33.4		25
350		35.7		41.6		5.9		39.7		3.9		34.1		31.8		25.6

#### Material Specifications

Conductor Material	Bare copper
Drain Wire Material	Tinned copper
Insulation Material	Polyolefin
Jacket Material	PVC
Shield (Tape) Material	Aluminum/Polyester
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)

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Environmental Space	Non-plenum
Flame Test Method	CMR   NEC Article 800   UL 1666   UL 444
Packaging and V	/eights
Cable weight	40.627 kg/km   27.3 lb/kft
Packaging Type	Reel
Regulatory Com	pliance/Certifications
Agency	Classification

ISO 9001:2015

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

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