

Product Specifications

COMMSCOPE®



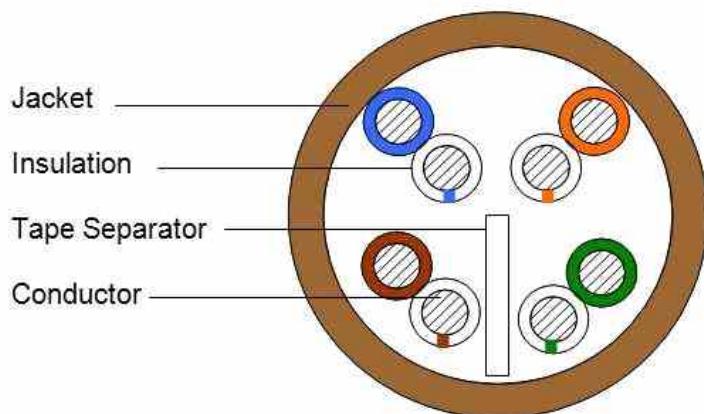
UN884034214/10 | CS34R BRN C6 4/23 U/UTP CPK 1KFT

CS34R ETL Verified Category 6 U/UTP Cable, non-plenum, brown jacket, 4 pair count, 1000 ft (305 m) length, CommPak

Product Classification

Portfolio	Uniprise®
Product Type	Twisted pair cable
Regional Availability	North America

Cross Section Drawing



Construction Materials

Jacket Material	PVC
Conductor Material	Bare copper
Insulation Material	Polyolefin
Separator Material	Polyolefin

Dimensions

Cable Length	305 m 1000 ft
Cable Weight	23.58 lb/kft
Diameter Over Jacket	5.588 mm 0.220 in
Jacket Thickness	0.508 mm 0.020 in

Electrical Specifications

ANSI/TIA Category	6
Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	8.00 ohms/100 m
Delay Skew, maximum	30 ns
Mutual Capacitance	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	69 %
Operating Frequency, maximum	250 MHz
Transmission Standards	ANSI/TIA-568-C.2 CENELEC EN 50288-6-1 ISO/IEC 11801 Class E
Safety Voltage Rating	300 V
Dielectric Strength, minimum	1500 Vac 2500 Vdc
Note	All electrical transmission tests include swept frequency measurements

Environmental Specifications

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Environmental Space	Non-plenum
Flame Test Method	CMR
Installation Temperature	0 °C to +60 °C (+32 °F to +140 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)

General Specifications

Cable Type	U/UTP (unshielded)
Packaging Type	CommPak® box
Pairs, quantity	4
Cable Component Type	Horizontal
Jacket Color	Brown
Product Number	CS34R
Brand	Unprise®
Conductor Gauge, singles	23 AWG
Conductor Type, singles	Solid
Conductors, quantity	8
Separator Type	Tape separator

Mechanical Specifications

Pulling Tension, maximum 11 kg | 25 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



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Electrical Performance

CS	CommScope		
Std	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above		
Typ	Typical		
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)		

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	2.0	2.0	1.8	75.3	74.3	89.3	73.3	72.3	87.6	72.3	72.3	87.0	70.3	70.3	85.3	68.0	67.8	84.3	65.0	64.8	82.4	20.0	20.0	34.0
4	3.8	3.8	3.5	66.3	65.3	80.0	62.5	61.5	76.5	63.3	63.3	77.7	59.5	59.5	74.1	56.0	55.8	72.6	53.0	52.8	70.8	23.0	23.0	33.9
8	5.3	5.3	5.0	61.8	60.8	75.5	56.4	55.4	70.5	58.8	58.8	73.2	53.4	53.4	68.2	49.9	49.7	66.8	46.9	46.7	64.9	24.5	24.5	35.5
10	6.0	6.0	5.6	60.3	59.3	73.9	54.3	53.3	68.3	57.3	57.3	71.5	51.3	51.3	65.9	48.0	47.8	64.9	45.0	44.8	63.0	25.0	25.0	36.5
16	7.6	7.6	7.2	57.2	56.2	70.6	49.7	48.7	63.4	54.2	54.2	68.3	46.7	46.7	61.1	43.9	43.7	60.8	40.9	40.7	58.9	25.0	25.0	37.6
20	8.5	8.5	8.1	55.8	54.8	69.2	47.3	46.3	61.2	52.8	52.8	66.9	44.3	44.3	58.8	42.0	41.8	58.9	39.0	38.8	56.9	25.0	25.0	38.2
25	9.5	9.5	9.0	54.3	53.3	67.6	44.8	43.8	58.6	51.3	51.3	65.3	41.8	41.8	56.2	40.0	39.8	57.0	37.0	36.8	55.0	24.3	24.3	38.2
31.25	10.7	10.7	10.1	52.9	51.9	66.3	42.2	41.2	56.1	49.9	49.9	63.9	39.2	39.2	53.8	38.1	37.9	55.0	35.1	34.9	53.0	23.6	23.6	38.3
62.5	15.4	15.4	14.5	48.4	47.4	61.4	33.0	32.0	46.9	45.4	45.4	59.0	30.0	30.0	44.5	32.1	31.9	48.9	29.1	28.9	46.9	21.5	21.5	34.7
100	19.8	19.8	18.6	45.3	44.3	58.1	25.5	24.5	39.5	42.3	42.3	55.7	22.5	22.5	37.1	28.0	27.8	44.7	25.0	24.8	42.8	20.1	20.1	31.6
155	25.2	25.2	23.5	42.4	41.4	55.7	17.3	16.3	32.2	39.4	39.4	53.0	14.3	14.3	29.5	24.2	24.0	41.0	21.2	21.0	39.0	18.8	18.8	29.6
200	29.0	29.0	26.9	40.8	39.8	52.6	11.8	10.8	25.7	37.8	37.8	50.4	8.8	8.8	23.4	22.0	21.8	38.6	19.0	18.8	36.7	18.0	18.0	29.3
250	32.8	32.8	30.3	39.3	38.3	50.8	6.5	5.5	20.5	36.3	36.3	48.6	3.5	3.5	18.3	20.0	19.8	36.5	17.0	16.8	34.7	17.3	17.3	28.8
300			33.5			49.0			15.6			46.8			13.4			34.5			32.6			28.9
350			36.4			47.6			11.2			45.4			9.0			33.0			31.0			29.0
400			39.0			46.3			7.3			44.1			5.1			31.3			29.3			30.3
500			44.3			43.2			-1.1			41.2			-3.1			27.3			25.5			31.0
550			44.6			43.1			-1.5			41.2			-3.5			27.4			25.5			31.0
650			51.3			40.2			-11.1			38.4			-12.9			22.3			20.4			25.0