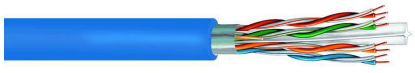
UN884014904/10 | CS34R BLU C6 4/23 F/UTP RL 1KFT



CS34R Category 6 F/UTP Cable, non-plenum, blue jacket, 4 pair count, 1000 ft (305 m) length, reel

Product Classification

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

General Specifications

Product Number	CS34R
ANSI/TIA Category	6
Cable Component Type	Horizontal
Cable Type	F/UTP (shielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Drain Wire Type	Solid
Jacket Color	Blue
Note	All electrical transmission tests include swept frequency measurements
Pairs, quantity	4
Separator Type	Isolator
Transmission Standards	ANSI/TIA-568.2-D | CENELEC EN 50288-6-1 | ISO/IEC 11801 Class E

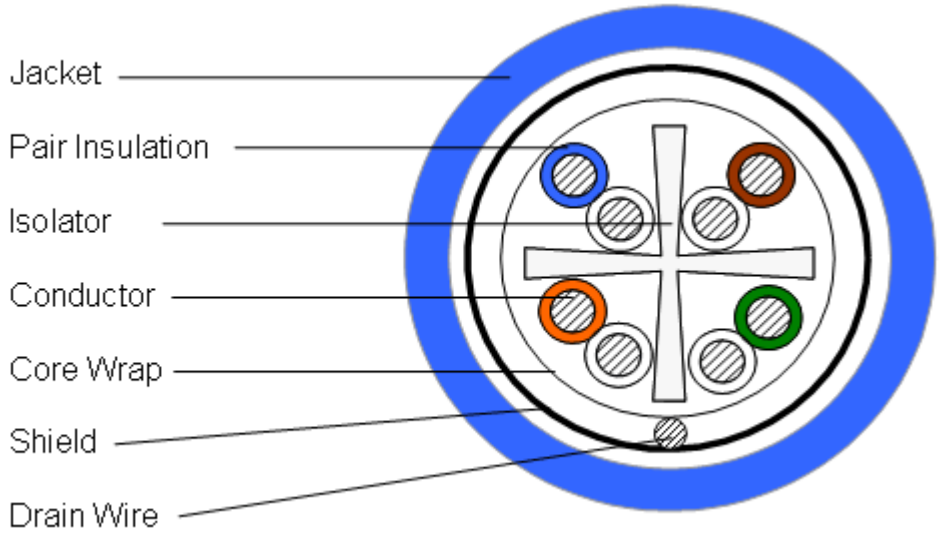
Dimensions

Cable Length	304.8 m | 1000 ft
Diameter Over Jacket, nominal	7.315 mm | 0.288 in

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Jacket Thickness	0.508 mm | 0.02 in
Conductor Gauge, singles	23 AWG
Drain Wire Gauge	26 AWG

Cross Section Drawing



Electrical Specifications

Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	8 ohms/100 m | 2.438 ohms/100 ft
Delay Skew, maximum	45 ns
Dielectric Strength, minimum	1500 Vac | 2500 Vdc
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	68 %
Operating Frequency, maximum	250 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 Performance

CS
CommScope value

Std
Sandard value

(listed under the Transmission Standards in the Electrical Specifications above)

Typ
Typical value

IL
Insertion Loss (dB/100m)

RL
Return Loss (dB)

NEXT
Near End Crosstalk (dB/100m)

PSNEXT
Power Sum Near End Crosstalk (dB/100m)

ACR
Attenuation to Crosstalk Ratio (dB/100m)

ACRF
Attenuation to Crosstalk Ratio - Far End (dB/100m)

PSACR
Power Sum Attenuation to Crosstalk Ratio (dB/100m)

PSACRF
Insertion Loss (dB/100m)

FREQUENCY	IL TYP	IL CS	IL STD	NEXT TYP	NEXT CS	NEXT STD	ACR TYP	ACR CS	ACR STD	PSNEXT TYP	PSNEXT CS	PSNEXT STD	PSACR TYP	PSACR CS	PSACR STD	ACRF TYP	ACRF CS	ACRF STD	PSACRF TYP	PSACRF CS	PSACRF STD	RL TYP	RL CS	RL STD
1.00 MHz	1.7		2	87.7		74.3	85.9		72.3	85.3		72.3	83.6		70.3	88.5		67.8	85.8		64.8	31.2		20
4.00 MHz	3.3		3.8	82		65.3	78.7		61.5	79.8		63.3	76.4		59.5	80.8		55.8	79		52.8	32.7		23
8.00 MHz	4.7		5.3	76.7		60.8	72		55.4	74.6		58.8	69.9		53.4	75		49.7	73.2		46.7	35.3		24.5
10.00 MHz	5.2		6	74.4		59.3	69.1		53.3	72.5		57.3	67.3		51.3	73		47.8	71.2		44.8	36.5		25
16.00 MHz	6.7		7.6	71.2		56.2	64.6		48.7	69.3		54.2	62.6		46.7	69.2		43.7	67.2		40.7	36.6		25
20.00 MHz	7.5		8.5	69.8		54.8	62.3		46.3	67.9		52.8	60.4		44.3	67.3		41.8	65.4		38.8	36.3		25
31.25 MHz	9.3		10.7	66.9		51.9	57.6		41.2	64.9		49.9	55.6		39.2	63.4		37.9	61.6		34.9	33.9		23.6
62.50 MHz	13.3		15.4	62.8		47.4	49.5		32	60.8		45.4	47.6		30	57.3		31.9	55.4		28.9	31.3		21.5
100.00 MHz	16.9		19.8	59		44.3	42.2		24.5	57.1		42.3	40.3		22.5	53.4		27.8	51.6		24.8	27.1		20.1
155.00 MHz	21.1		25.2	55.6		41.4	34.5		16.3	53.8		39.4	32.7		14.3	49.5		24	47.5		21	23.7		18.8
200.00 MHz	24.1		29	52.1		39.8	28		10.8	50.6		37.8	26.6		8.8	47.6		21.8	45.5		18.8	21.8		18
25.00 MHz	8.4		9.5	68.4		53.3	60.1		43.8	66.4		51.3	58.1		41.8	65.3		39.8	63.5		36.8	35.6		24.3
250.00 MHz	27		32.8	51.1		38.3	24.1		5.5	49.4		36.3	22.4		3.5	45.3		19.8	43.2		16.8	20.1		17.3
300.00 MHz	29.7			50.1			20.4			48.3			18.6			43.5			41.6			19.1		
350.00 MHz	32.2			48.8			16.7			47			14.8			42.3			40.2			18.1		
400.00 MHz	34.5			47.3			12.7			45.6			11			40.9			38.9			17.2		
500.00 MHz	39			44			5			42.5			3.5			39			36.9			15.9		
550.00 MHz	41.1			43.2			2.1			41.6			0.5			36.2			33.8			15.5		
650.00 MHz	45			43.4			-1.6			41.5			-2.5			34.6			32.3			15		

Material Specifications

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

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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

Packaging and Weights

Cable weight	50.746 kg/km | 34.1 lb/kft
Packaging Type	Reel

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant
UK-ROHS	Compliant

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