

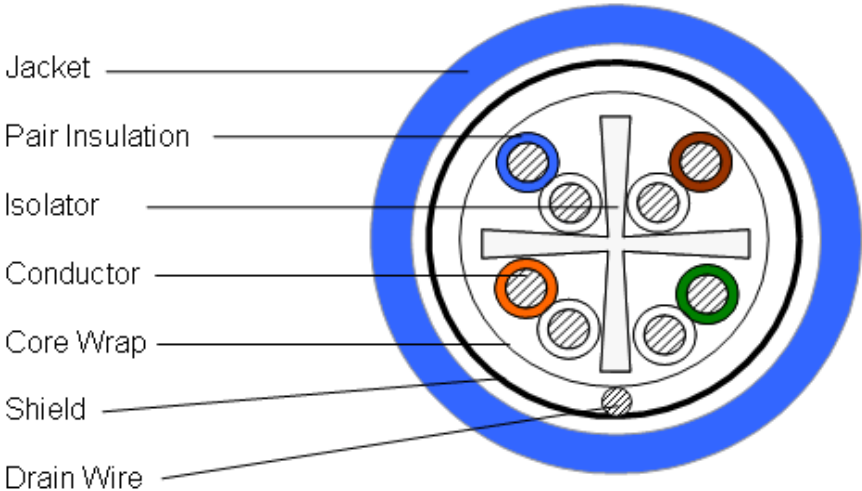


UN884014904/10 | CS34R BLU C6 4/23 F/UTP RL 1KFT  
**CS34R Category 6 F/UTP Cable, non-plenum, blue jacket, 4 pair count, 1000 ft (305 m) length, reel**

## Product Classification

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

## Cross Section Drawing



## Construction Materials

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

## Dimensions

Cable Length	305 m   1000 ft
Cable Weight	34.10 lb/kft
Diameter Over Jacket	7.315 mm   0.288 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	45 ns

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Mutual Capacitance	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	68 %
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

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	F/UTP (shielded)
Packaging Type	Reel
Pairs, quantity	4
Cable Component Type	Horizontal
Jacket Color	Blue
Product Number	CS34R
Brand	Uniprise®
Conductor Gauge, singles	23 AWG
Conductor Type, singles	Solid
Conductors, quantity	8
Drain Wire Gauge	24 AWG
Drain Wire Type	Solid
Separator Type	Isolator

## Mechanical Specifications

Pulling Tension, maximum	11 kg   25 lb
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## Regulatory Compliance/Certifications

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



## Electrical Performance

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	
	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ
1	2.0	1.7	74.3	87.7	72.3	85.9	72.3	85.3	70.3	83.6	67.8	88.5	64.8	85.8	20.0	31.2
4	3.8	3.3	65.3	82.0	61.5	78.7	63.3	79.8	59.5	76.4	55.8	80.8	52.8	79.0	23.0	32.7
8	5.3	4.7	60.8	76.7	55.4	72.0	58.8	74.6	53.4	69.9	49.7	75.0	46.7	73.2	24.5	35.3
10	6.0	5.2	59.3	74.4	53.3	69.1	57.3	72.5	51.3	67.3	47.8	73.0	44.8	71.2	25.0	36.5
16	7.6	6.7	56.2	71.2	48.7	64.6	54.2	69.3	46.7	62.6	43.7	69.2	40.7	67.2	25.0	36.6
20	8.5	7.5	54.8	69.8	46.3	62.3	52.8	67.9	44.3	60.4	41.8	67.3	38.8	65.4	25.0	36.3
25	9.5	8.4	53.3	68.4	43.8	60.1	51.3	66.4	41.8	58.1	39.8	65.3	36.8	63.5	24.3	35.6
31.25	10.7	9.3	51.9	66.9	41.2	57.6	49.9	64.9	39.2	55.6	37.9	63.4	34.9	61.6	23.6	33.9
62.5	15.4	13.3	47.4	62.8	32.0	49.5	45.4	60.8	30.0	47.6	31.9	57.3	28.9	55.4	21.5	31.3
100	19.8	16.9	44.3	59.0	24.5	42.2	42.3	57.1	22.5	40.3	27.8	53.4	24.8	51.6	20.1	27.1
155	25.2	21.1	41.4	55.6	16.3	34.5	39.4	53.8	14.3	32.7	24.0	49.5	21.0	47.5	18.8	23.7
200	29.0	24.1	39.8	52.1	10.8	28.0	37.8	50.6	8.8	26.6	21.8	47.6	18.8	45.5	18.0	21.8
250	32.8	27.0	38.3	51.1	5.5	24.1	36.3	49.4	3.5	22.4	19.8	45.3	16.8	43.2	17.3	20.1
300		29.7		50.1		20.4		48.3		18.6		43.5		41.6		19.1
350		32.2		48.8		16.7		47.0		14.8		42.3		40.2		18.1
400		34.5		47.3		12.7		45.6		11.0		40.9		38.9		17.2
500		39.0		44.0		5.0		42.5		3.5		39.0		36.9		15.9
550		41.1		43.2		2.1		41.6		0.5		36.2		33.8		15.5
650		45.0		43.4		-1.6		41.5		-3.5		34.6		32.3		15.0