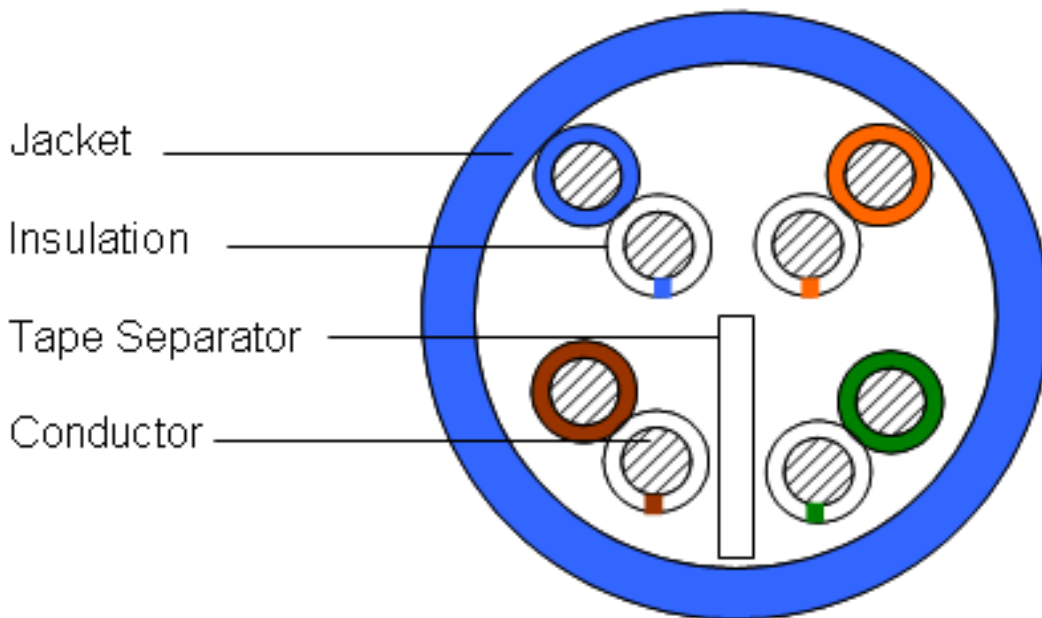


CS34R ETL Verified Category 6 U/UTP Cable, non-plenum, blue jacket, 4 pair count, 1000 ft (305 m) length, CommPak

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, nominal	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
Operating Voltage, maximum 80 V
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 | NEC Article 800 | UL 1666 | UL 444
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 Blue
Product Number CS34R
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

RoHS 2011/65/EU

ISO 9001:2015

Classification

Compliant

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



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